ORDER NO. APD9106997

# Service Manual

AUTO PRODUCTS

# CQ-RD15/RD25EN

## Radio Data System Digital Control Tuner /Cassette Player
## Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

(CQ-RD25EN)

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⊡⊡ are trade marks of Dolby Laboratories Licensing Corporation.

## Features

- 22W x 4 Power Amp.
- Theft protection system.
- Direct Control is possible by connecting CD changer.
- Dolby B noise reduction.
- "One touch" presetting possible for 6 LW/MW (AM) stations, 12 UKW (FM) stations and 6 VF stations.
- RDS (Radio Data System).
- Traffic information broadcast station SK/DK reception.

## Merkmale

- 22W x 4 Leistungsverstärker.
- Diebstahlschutzsystem.
- Durch Anschließen des CD-Wechslers ist eine Direktsteuerung möglich.
- Dolby B Rausschverminderungs.
- 6 LW/MW-Sender, 12UKW-Sender und 6 VF-Sender können auf Tastendruck voreingestellt werden.
- Radio-Datensystem.
- Sender, die Verkehrsdurchsagen ausstrahlen, mit SK/DK können empfangen werden.

Panasonic

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**WARNING !**

Lithium batteries. Explosion danger.
Change of batteries must only be done by qualified personnel and as described in the service manual.
Furthermore, that the batteries must only be changed with batteries of the same manufacture and type.

**ADVARSEL !**

Lithiumbatterier. Eksplosionsfare.
Udskiftning må kun foretages af en sagkyndig og som beskrevet i servicemanualen.
Batterierne kun må udskiftes med batterier af samme fabrikat og type.

# Operating Controls

| Model | Type | T·CALL (Tuner Call) | B·SKIP (Blank Skip) | REPEAT (Repeat) | TPS (Tape Program Search) |
|---|---|---|---|---|---|
| CQ-RD15EN | Mechanical | None | None | None | Yes |
| CQ-RD25EN | IC Logic Control | Yes | Yes | Yes | Yes(Programmable) |

# Bedienungselemente

| Modell | Typ | T·CALL (Tuner-Ansteuerung) | B·SKIP (Leerstellen-Übersprung-Funktion) | REPEAT (Wieder-holung) | TPS (Suche nach dem Beginn von Musiktiteln) |
|---|---|---|---|---|---|
| CQ-RD15EN | Mechanisch | Nein | Nein | Nein | Ja |
| CQ-RD25EN | IC-Logiksteuerung | Ja | Ja | Ja | Ja (programmierbar) |

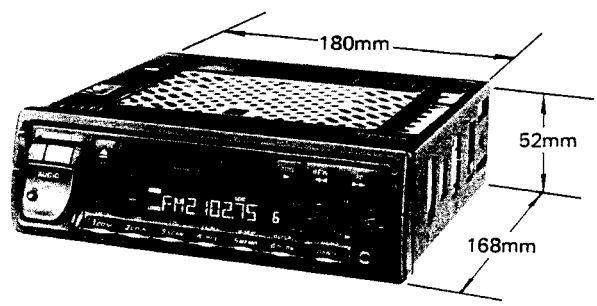
# Fuse

Be sure to use a fuse of the specified rating (3A, 10A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire or damage to the unit.

# Sicherung

Als Ersatz für eine durchgebrannte Sicherung unbedingt eine Sicherung mit dem vorgeschriebenen Nennwert (3 A, 10 A) verwenden. Durch den Gebrauch von Sicherungen mit höheren Nennwerten, von Sicherungsersatzteilen oder durch den Anschluß ohne Gebrauch einer Sicherung kann ein Brand oder Geräteschaden verursacht werden.

## Dimensions/Abmessungen




(CQ-RD25EN)

# Specifications

### General

| | | |
|---|---|---|
| Power Supply | : | DC 12V (11V - 16V)<br>Test Voltage 14.4V Negative Ground |
| Tone Action | : | Bass; ± 10dB at 100Hz<br>Treble; ± 10dB at 10kHz |
| Maximum Power Output | : | 4×25W (1kHz) (CQ-RD25EN)<br>4×22W (1kHz) (CQ-RD15EN)<br>(DIN45 324, at 4Ω) |
| Loudness Control | : | + 8dB at 100Hz, + 6dB at 10kHz |
| Current Consumption | : | Less than 2.5A<br>(Tape mode, 0.5W 4-Speaker) |
| Speaker Impedance | : | 4Ω (4 - 8Ω available) |
| Battery Back-up Current Consumption | : | Less than 5mA |
| Dimensions (Main unit) | : | 178(W) × 50(H) × 150(D)mm |
| (Bracket) | : | 180(W) × 52(H) × 168(D)mm |
| Weight (Main unit) | : | 1.65kg |
| (Bracket) | : | 0.35kg |

### FM Stereo Radio

| | | |
|---|---|---|
| Frequency Range | : | 87.5 - 108.0MHz |
| Intermediate Frequency | : | 10.7MHz |
| Maximum Sensitivity | : | 0dB/μV (S/N 10dB) |
| FM Stereo Sensitivity | : | 6dB/μV |
| Output Voltage | : | 600mV (22.5Hz Dev.) |
| RDS Sensitivity | : | 22dB/μV |
| Stereo Separation | : | 35dB (at 1kHz) |

### MW Radio

| | | |
|---|---|---|
| Frequency Range | : | 531 - 1,602kHz |
| Intermediate Frequency | : | 450kHz |
| Usable Sensitivity | : | 28dB/μV (S/N 20dB) |
| Output Voltage | : | 450mV (30% Mod.) |

### LW Radio

| | | |
|---|---|---|
| Frequency Range | : | 153 - 279kHz |
| Intermediate Frequency | : | 450kHz |
| Usable Sensitivity | : | 30dB/μV (S/N 20dB) |
| Output Voltage | : | 450mV (30% Mod.) |

### Cassette Player

| | | |
|---|---|---|
| Reproduction System | : | 4-track, 2-program stereo |
| Tape Speed | : | 4.76cm/sec. |
| FF/Rewind Time | : | Less than 110 sec. (C-60) (CQ-RD25EN)<br>Less than 105 sec. (C-60) (CQ-RD15EN) |
| Frequency Response | : | 30 - 17,000Hz (Normal) (CQ-RD25EN)<br>30 - 18,000Hz (Metal) (CQ-RD25EN)<br>35 - 15,000Hz (Normal) (CQ-RD15EN)<br>35 - 17,000Hz (Metal) (CQ-RD15EN) |
| Wow and Flutter | : | 0.09% (WRMS) (CQ-RD25EN)<br>0.12% (WRMS) (CQ-RD15EN) |
| Signal to Noise Ratio | : | 56dB (Dolby NR on; 66dB) (CQ-RD25EN)<br>52dB (Dolby NR on; 62dB) (CQ-RD15EN) |
| Output Voltage | : | 750mV (Ref. level; 0dB) |

**Note:** Specifications and the design are subject to possible modification without notice due to improvements.

# Technische Daten

### Allgemeines

| | | |
|---|---|---|
| Spannungsversorgung | : | 12V (11V - 16V) Gleichspannung,<br>Testspannung 14,4V, negative Erdung |
| Klangregelung | : | Bässe; ± 10dB bei 100Hz<br>Höhen; ± 10dB bei 10kHz |
| Höchstausgangsleistung | : | 4 x 25W (1kHz) (CQ-RD25EN)<br>4 x 22W (1kHz) (CQ-RD15EN)<br>(DIN45 324 bei 4Ω) |
| Gehörrichtige Frequenzgangkorrektur | : | + 8dB bei 100Hz, + 6dB bei 10kHz |
| Leistungsaufnahme | : | Weniger als 2,5A<br>(Cassettenwiedergabe,<br>0,5W, 4 Lautsprecher) |
| Lautsprecherimpedanz | : | 4Ω - 8 Ω |
| Stromangabe der Sicherungsbatterie | : | Weniger als 5mA |
| Abmessungen (Haupteinheit) | : | 178(B) x 50(H) x 150(T) mm |
| (Halterbügel) | | 180(B) x 52(H) x 168(T) mm |
| Gewicht (Haupteinheit) | : | 1,65kg |
| (Halterbügel) | | 0,35kg |

### UKW-Stereo-Tunerteil

| | | |
|---|---|---|
| Frequenzbereich | : | 87,5 - 108MHz |
| Zwischenfrequenz | : | 10,7MHz |
| Maximale Empfindlichkeit | : | 0dB/μV (Signal/Rauschabstand 10dB) |
| UKW-Stereo-Empfindlichkeit | : | 6dB/μV |
| Ausgangsspannung | : | 600mV (22,5Hz Frequenzhub) |
| RDS Empfindlichkeit | : | 22dB/μV |
| Stereoabscheidung | : | 35dB (bei 1kHz) |

### MW-Tunerteil

| | | |
|---|---|---|
| Frequenzbereich | : | 531 - 1.602kHz |
| Zwischenfrequenz | : | 450kHz |
| Anwendbar Empfindlichkeit | : | 28dB/μV (Signal/Rauschabstand 20dB) |
| Ausgangsspannung | : | 450mV (30% Modulationsgrad) |

### LW-Tunerteil

| | | |
|---|---|---|
| Frequenzbereich | : | 153 - 279kHz |
| Zwischenfrequenz | : | 450kHz |
| Anwendbar Empfindlichkeit | : | 30dB/μV (Signal/Rauschabstand 20dB) |
| Ausgangsspannung | : | 450mV (30% Modulationsgrad) |

### Cassettenspieler

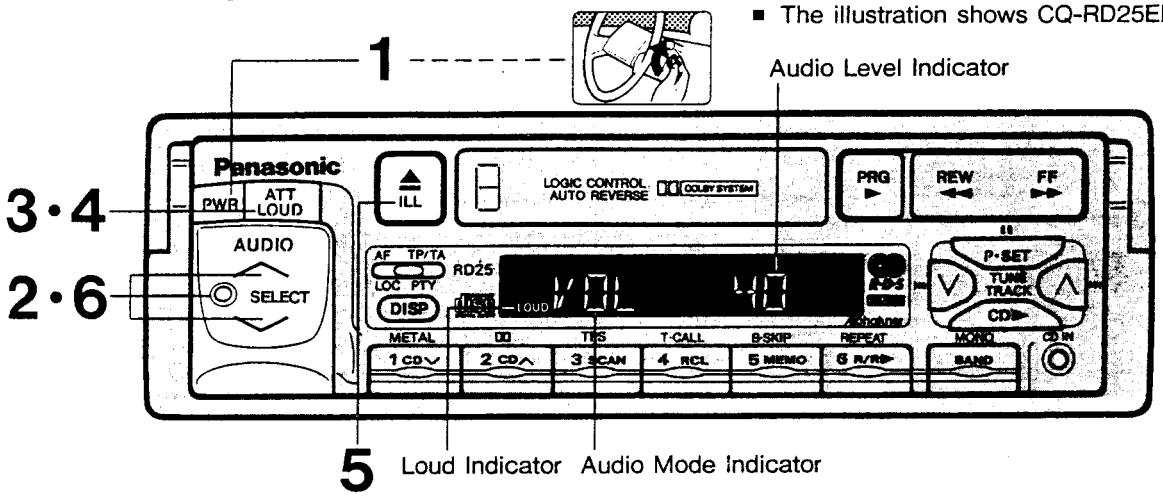
| | | |
|---|---|---|
| Wiedergabe-System | : | 4 Spuren, 2-Kanal-Stereo |
| Bandgeschwindigkeit | : | 4,76cm/sek. |
| Schnellvorlauf-/Rücklaufzeit | : | Weniger als 110sek. (C-60) (CQ-RD25EN)<br>Weniger als 105sek. (C-60) (CQ-RD15EN) |
| Frequenzgang | : | 30 - 17.000Hz (Normale Bänd) (CQ-RD25EN)<br>30 - 18.000Hz (Reineisenband) (CQ-RD25EN)<br>35 - 15.000Hz (Normale Bänd) (CQ-RD15EN)<br>35 - 17.000Hz (Reineisenband) (CQ-RD15EN) |
| Gleichlaufschwankungen | : | 0,09% (WRMS) (CQ-RD25EN)<br>0,12% (WRMS) (CQ-RD15EN) |
| Signal/Rauschabstand | : | 56dB (Dolby NR ein; 66dB) (CQ-RD25EN)<br>52dB (Dolby NR ein; 62dB) (CQ-RD15EN) |
| Ausgangsspannung | : | 750mV (Bezugspegel 0dB) |

**Hinweis:** Bei Konstruktion und technischen Daten Änderungen vorbehalten.

# Operation of Controls

## Common Operating Procedures

■ The illustration shows CQ-RD25EN.




### 1 First time use:

Turn the ignition key to ON (ACC) and press the power switch.

### 2 To adjust the volume:

Press "∧" audio control to increase the volume level.
Press "∨" audio control to decrease the volume level.
"VOL" and level indicator ("0"-"40") will be illuminated.

### 3 To turn down the volume instantly:

- Press the ATT button. Volume will decrease to about 1/10 of its previous level. "ATT ON" indicator will be illuminated.
- To return to the previous volume level, press this button again. (Refer to "Most-Recent Memory" section.)

### 4 To emphasize bass/treble at low/medium volume levels:

- Press the LOUD button for more than 2 seconds to switch on the loud feature. The bass and treble characteristics will be emphasized when listening at low or medium volume levels. ("LOUD" indicator will be illuminated.)
- Press the LOUD button again for more than 2 seconds to turn off the loud function.

### 5 To change the illumination color:

Press the ILL button to change the illuminating color from green to amber or vice versa.

**Notes:**

**For CQ-RD15EN:** Press the ILL button.

**For CQ-RD25EN:** Press the ILL button for more than 2 seconds.

### 6 To change the audio mode:

SELECT Each time this button is pressed, the audio mode will change in the following sequence;

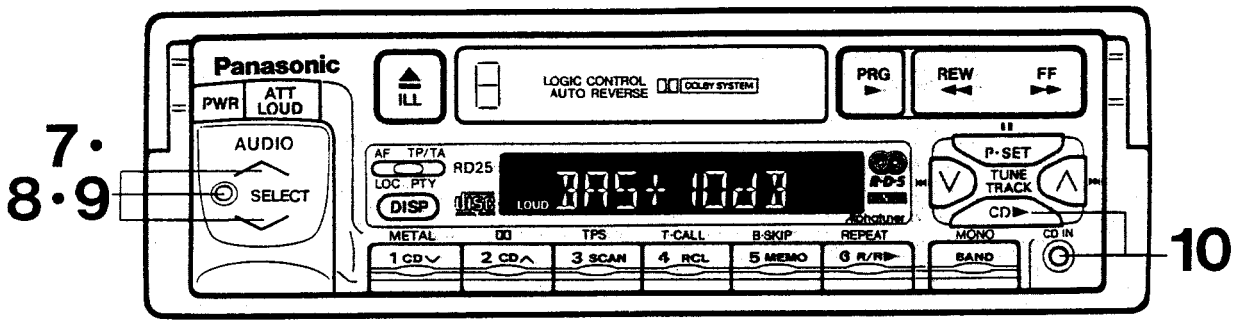
VOLUME → BASS → TREBLE
↑ ↓
FADER ← BALANCE

### Most-Recent Memory:

When the power is switched off, the unit will retain all function settings last heard when the unit is turned off and automatically returns to those settings the next time the unit is turned on.

**Note:** This unit is equipped with anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened with sudden loud volume. This system works like this. When the ATT button was switched off and the next time the unit is turned on again, the volume level will automatically be adjusted to a certain volume degree, and then the volume level will gradually go back to its previous level prior to switching off the unit.

# Common Operating Procedures (Cont'd.)




## 7 To adjust the bass and treble:

SELECT ❶Press the SELECT button until the BASS (TRE) mode is selected. "BAS" ("TRE") will be illuminated.

❷Press the "∧" audio control to increase the bass/treble response.

❸Press the "∨" audio control to decrease the bass/treble level indicator ("+ 10dB"-"- 10dB") will be illuminated.

**Note:** The bass and treble can be adjusted at each mode of FM, AM, TAPE and CD independently.

## 8 To adjust the left/right balance:

SELECT ❶Press the SELECT button until the BALANCE mode is selected. "BAL" will be illuminated.

❷Press the "∧" audio control to shift the sound volume to the right speakers.

❸Press the "∨" audio control to shift the sound volume to the left speakers. The balance level indicator ("1" - "15") will be illuminated.

## 9 To adjust the front/rear balance:

SELECT ❶Press the SELECT button until the FADER mode is selected. "FAD"will be illuminated.

❷Press the "∧" audio control to shift the sound volume to the front speakers.

❸Press the "∨" audio control to shift the sound volume to the rear speakers. The fader level indicator ("1" - "15") will be illuminated.

## 10 To set the CD input selector

Press the "CD▶" button to play compact disc (such as portable CD player, etc.) connected to this unit's CD input jack. The unit will switch from tuner (CD changer) mode to CD IN mode. "CD" will be illuminated.

- If the BAND button is pressed, CD IN mode returns to tuner (CD changer) mode.

**Caution:**

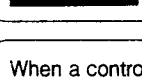
**For CQ-RD15EN:** If the "CD▶" button is pressed when the tape has been inserted, the mode does not change to CD mode. In case of changing to CD mode, eject the tape.

**For CQ-RD25EN:** Even if the tape has been inserted, the mode changes to CD mode by pressing the "CD▶" button.

### Balance Display example:

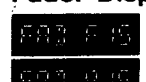
Balance right level 15

Balance left level 15



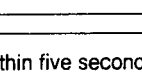
Balance center

### Fader Display example:



Fader front level 15

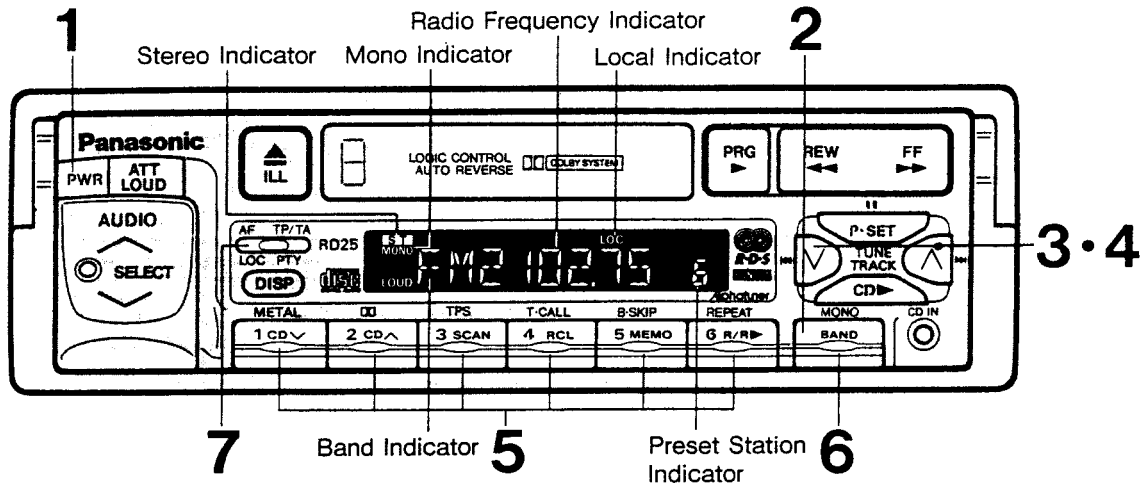
Fader rear level 15



Fader center

When a control mode is selected but no operation is made within five seconds, the display will return to the normal operation (volume adjustment) mode. In such a case, press the SELECT button again to select the next control mode.

# Radio Play Operations




## 1 To change to the tuner mode

Press the PWR button on.

## 2 To select the desired band

Each time this button is pressed, the band will change in the following sequence:

FM1 → FM2 → AM(LW/MW)

Initial operation is preset for FM1 band.

## 3 Manual tuning

By pressing the "∨TUNE" or "TUNE∧" button, you can tune the frequency downward or upward.

## 4 Seek tuning

Press "∨TUNE" or "TUNE∧" button for more than a half second, seek tuning will operate and stop automatically on the next strong station. Continue this operation until you find the desired station.

## 5 To tune in a preset station

Press the preset buttons to recall the previous preset stations. (See page 7.)

## 6 To reduce interference during FM stereo broadcasts (MONO Button)

Press the MONO button for more than 2 seconds to switch monaural reception in case much interference is present in an FM stereo signal or to improve the listening quality of weak FM broadcasts.

## 7 Switch from DX to LOC

Normally, searching stops even at a weak wave station.

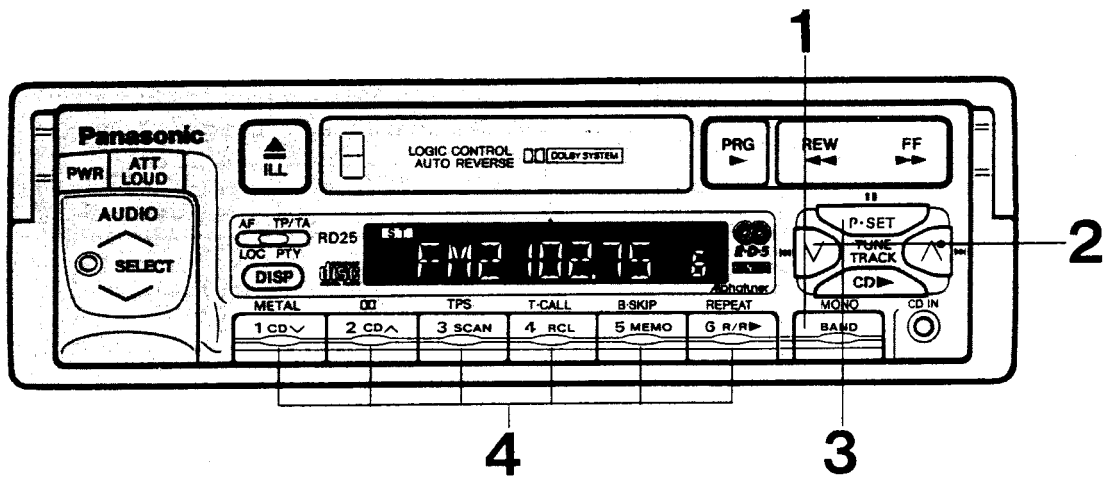
To stop searching at a strong wave station only, press this button for more than 2 seconds.

# Radio Play Operations (Cont'd.)

## Preset Station Setting

Up to 24 stations can be preset in the station memory as follows;

| FM1 | FM2 | AM(LW/MW) | TP |
|---|---|---|---|
| 6 stations | 6 stations | 6 stations | 6 stations |




### 1 To select the desired band

Press this button to select FM1, FM2 and AM (LW/MW). (See page 9 about TP mode.)

### 2 To tune in the station you want to listen to.

You can tune in a desired station either by manual tuning or seek tuning.

### 3 Auto preset – Preset Scan

**Auto preset:**

Hold this button for more than 2 seconds. Up to 6 strongest stations along the frequency band will automatically preset into six preset buttons (1 - 6). Scan will immediately follow from preset number 1 as soon as the auto preset is completed. Press the "P·SET" again or desired preset button when reaching the desired station. This can be done on any band.

**Preset Scan:**

Press this button to scan preset stations for 5 seconds. When reaching the desired station, simply press the "P·SET" again to cancel the preset scanning.

**Note:** FM1, FM2 cannot be scanned continuously.

### 4 To memorize the station in the memory.

Press one of the preset buttons for several seconds. Release when the band indicator and radio frequency blink once. The memory has been set. Preset other stations on other bands in the same manner.

**Note:** If any of these station selectors is accidentally pressed and held for several seconds, the previously preset station will be erased; instead, a different station will be registered into that memory circuit in which the band is playing.

# RDS (Radio Data System) Reception

## A. AF Reception (FM1, FM2, TP MODE)

**1** Turn on power switch

### AF (Alternative Frequency)

Press AF button if you want to listen to the same program successively as long as the AF network on RDS system is being received. The "AF" indicator will be illuminated. If AF network system is not required, press AF button again to off. The indicator will be turned off.

- "AF"will not work (even if "AF" is switched on) when the RDS broadcast station is not equipped with AF system.

### PS (Program Service) Name

When RDS broadcast station is tuned in, the name of the station will be shown. If you want to see the frequency, press the DISP button. However, after several seconds, display will return to the PS display.

### PI (Program Identification) Seek

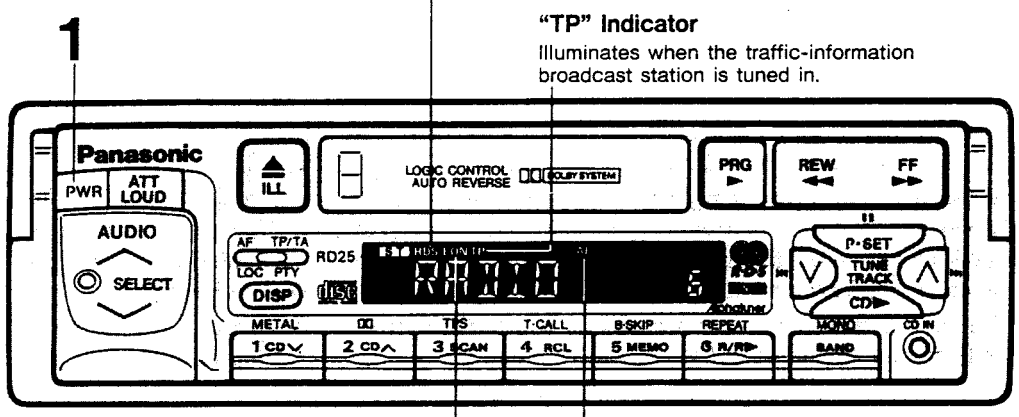
If the RDS broadcast station is preset and if its reception is poor when it is called, then automatic seek (PI Seek) will start to tune in to the same program. To cancel PI seek, switch AF off.

The PI seek function varies depending on the ON or OFF position of the LOC switch.

- **ON:** Searches for a station broadcasting the same program.
- **OFF:** Searches for a generically linked network which may be airing a different program.

**"RDS" Indicator**
Illuminates when the RDS broadcast station is tuned in.

**"TP" Indicator**
Illuminates when the traffic-information broadcast station is tuned in.

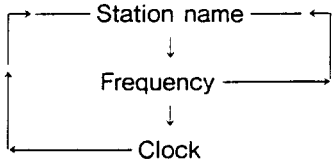



**"AF" Indicator**

**"EON" Indicator**
Illuminates when the Enhanced-Other-Network-Information broadcast station is tuned in.

### CT (Clock Time)

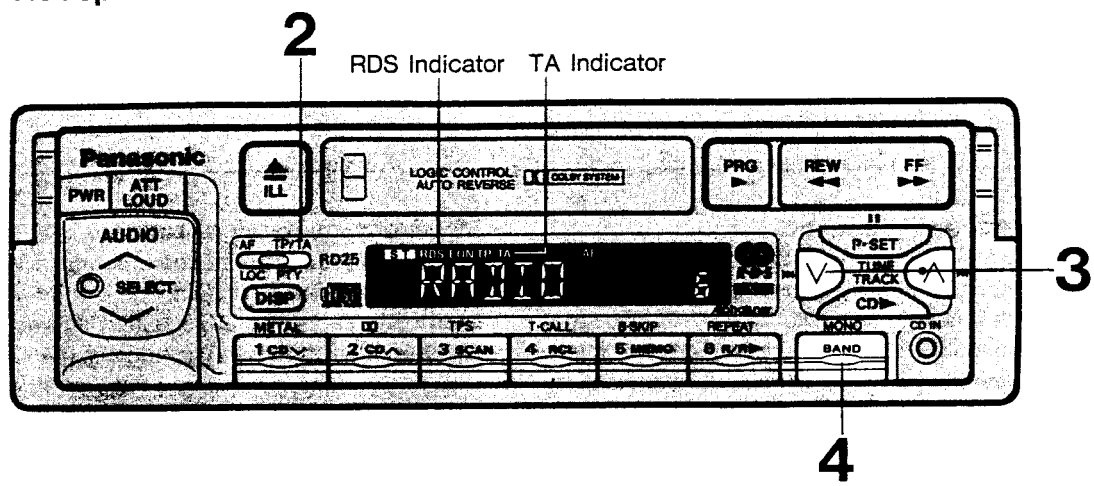
- The clock is automatically corrected when RDS CT data is received.
- When the DISP button is pressed, the information shown on the display changes as follows




If the DISP button is not pressed for 5 seconds, the display automatically returns to station name.

# RDS (Radio Data System) Reception (Cont'd.)

## B. TP Reception




**2 TP (Traffic Program) Identification**

Press TP/TA button for "TP" traffic information broadcast reception. TP and frequency are shown.

**3 "TP" search tuning Manual/Seek Tuning**

Tune in to the traffic information broadcast station by manual (or seek) tuning.

**4 To cancel "TP" traffic information broadcast station**

Press the BAND button, the previously tuned radio band (AM, FM1 or FM2) will be received again.

If another station (not received now) starts broadcasting traffic information while the EON TP station (EON TP indicator is illuminated) is being received in TP mode, that station is selected to receive traffic information. When the broadcast of traffic information ends, the previous station is received again. This function varies depending on the ON or OFF position of the LOC switch as follows:

- **ON:** Traffic information only the area where you are in now will be received.
- **OFF:** Traffic information around the area where you are in now will be received.

**Note:** If it is not necessary to listen to the traffic information broadcast by another station, press the TP/TA button to cancel this function and return to the previous station.

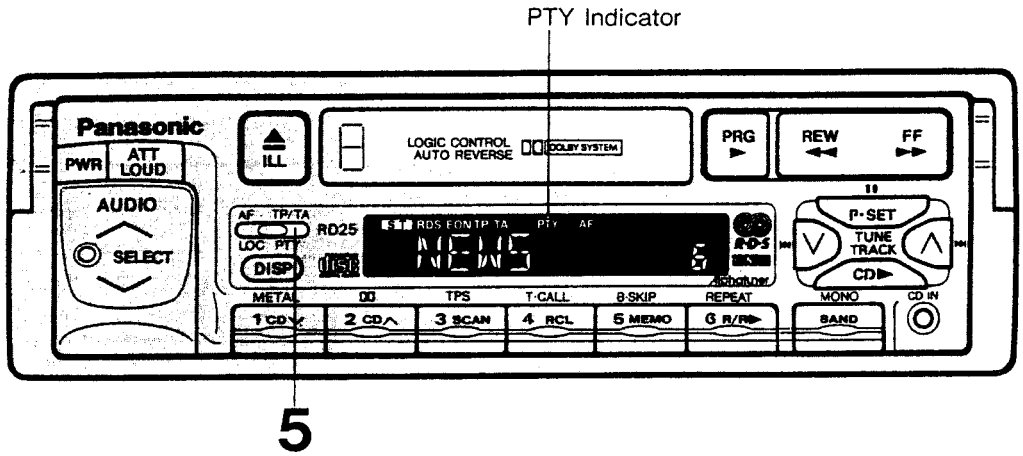
**WHAT PROVIDES EON CAPABILITIES**

This unit equipped with EON (Enhanced Other Networks) also keeps track of the alternative frequencies of other stations that are related to the one you are listening to, boosting the capabilities of the AF function. When you select one of these related stations using a preset button, the tuner can locate it immediately, without having to search.

If you are listening to a station that does not broadcast traffic information, this unit equipped with EON will also monitor traffic information broadcasts on related stations, automatically tuning in these broadcasts when they occur, after which returning to your original station.

# RDS (Radio Data System) Reception (Cont'd.)

## C. TA Reception




### 5 TA (Traffic Announcement) Identification

Press "TP/TA" to switch on again. The "AF" is also switched on automatically. The "TA" and "AF" indicators will be illuminated. TP tuning is used for listening to "TP" traffic information programs only. Other programs will be cut off. Press TP/TA button again to switch off. The "TA" indicator will be turned off.

**Notes:**

1. During tape or CD play, the "TP" broadcast station can still be heard automatically as long as the "TP/TA" is switched on.
2. If the "TP" indicator is turned off, the "TP" search tuning will automatically operate. (This explanation is also true during tape playback.)
3. If manual tuning is operated, TA will not be available and radio will switch to TP mode unless the "TP/TA" is swithced on again.
4. If cassette tape is inserted when the "TP" traffic information broadcast reception when "TP" is switched on, "TA" and "AF" are switched on automatically.

## D. PTY (Program Type) Reception

If the PTY button is pressed for more than 2 seconds while receiving FM1 or FM2 band, PTY mode is selected, and "PTY" will be illuminted. If RDS station is received, the type of broadcast now received is displayed. If it is not received, "NO-PTY" will be illuminated.

### Program type search

- A desired type of broadcast can be selected by pressing the TUNE buttons "∨" or "∧". The selected type of broadcast is shown on the display.

**Example:**

| Type | Display |
|---|---|
| News | NEWS |
| Sport | SPORT |
| Rock music | ROCK M |

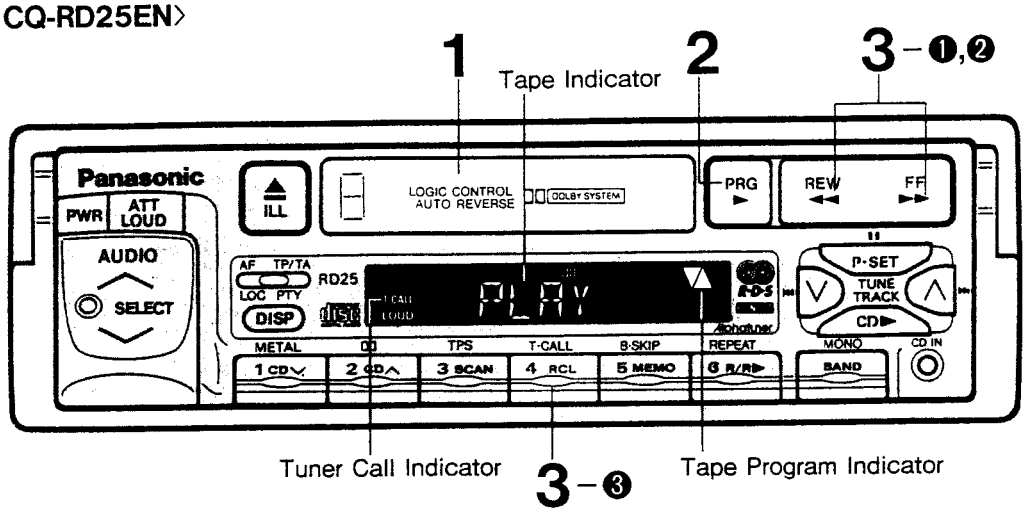
- If the P·SET button is pressed, a station broadcasting selected type of broadcast is automatically tuned.
- If one of the 1 to 6 buttons is pressed, a preset type of broadcast is recalled. If it is pressed for more than 2 seconds, the type of broadcast selected by means of the TUNE buttons "∨" or "∧" is stored in the memory.
- If the button assigned to a stored type of broadcast which is the same as that is listened to now is pressed, a station airing that type of broadcast is automatically tuned.
- If the DISP button is pressed in PTY mode, the display shows information in Swedish.

### Emergency Announcement Reception

If an emergency announcement is broadcasted during CD or tape play, FM mode is automatically selected, and "ALARM" will be illuminated. The previous mode returns after the emergency announcement.

# Tape Play Operations

〈For CQ-RD25EN〉




## 1 Cassette Slot

- Insert the cassette with the exposed tape side facing to the right. Gently push the cassette in until the mechanism captures the cassette.
- After the loading is completed, the display changes to "PLAY" and the tape program indicator (▲ or ▼) will be illuminated, playback starts.

## 2 Tape Program Selector

Press the "PRG" button if you want to change the program of tape play. The tape program indicator "PLAY ▲" or "PLAY ▼" will be illuminated. Otherwise, tape program will change automatically at the end of the tape (Auto Reverse System).

**Tape program indicator ("PLAY ▲" or "PLAY ▼")**

The tape program indicator is displayed during tape mode operation.

"PLAY ▲" : Displays the top side of the cassette is being played.

"PLAY ▼" : Displays the bottom side of the cassette is being played.

**Note:**

"▲" or "▼" is always illuminated when the cassette tape is loaded (even if it is at radio mode or CD mode).

## 3 Rewind/Fast Forward

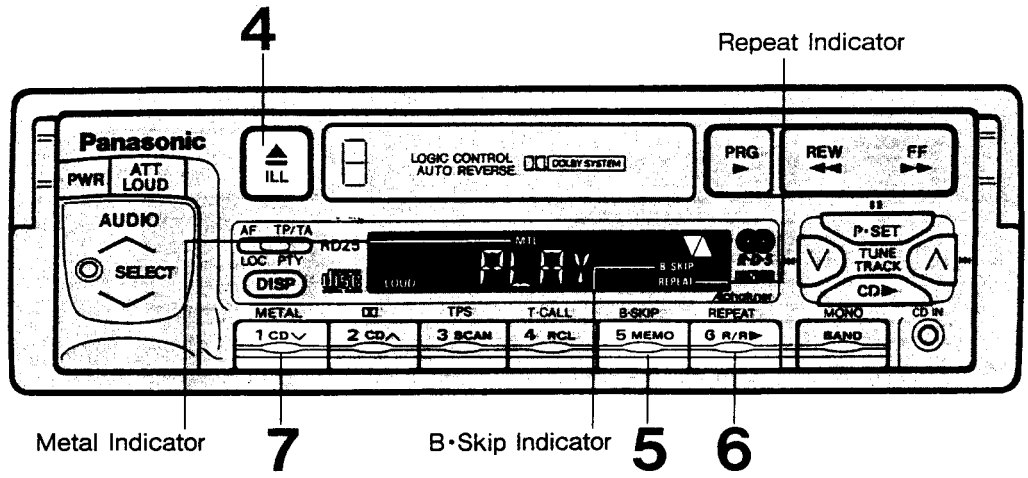
❶Press the "FF" button for fast forward. The "▲" or "▼" indicator blink. When the tape reaches its end, Auto Reverse will operate and play back the opposite side of the tape.

❷Press the "REW" button for rewind. The "▲" or "▼" indicator blink. When the tape is fully rewound, the same side of the tape will be played. To stop rewind/fast forward operation, press the "PRG" button. Then the tape play will resume playing from that position.

❸Press the "T·CALL" (Tuner Call) button during rewind/fast forward operation, tuner can be heard. The "FF" or "REW" indicator will change to the radio frequency indicator.

# Tape Play Operations (Cont'd.)

〈For CQ-RD25EN〉




## 4 To eject the tape

Press the "⏏" button and the cassette will pop out for removal, and the previous mode of operation will be resumed.

**Notes:**

- If power is switched off before the "⏏" button is pressed, the cassette will not eject. Switch on the power again and press the "⏏" button to eject the cassette.
- The cassette tape should always be removed from the cassette slot when not in use.

## 5 Blank Skip

Press the B·SKIP button to skip long, unrecorded portions on the tape. The "B·SKIP" indicator will be illuminated. This is most convenient if you quickly want to skip the remaining unrecorded portions at the end of the tape and go fast forward to the beginning of the first music on the reverse side of the tape.

**Notes:**

- At on the "B·SKIP" indicator is illuminated. However, the blank skip operation will not work if the REPEAT button is on. The repeat function has priority over that of the blank skip function.
- Also the blank skip operation will not work when the unrecorded portions of the tape is less than 15 seconds.

## 6 Repeat Playback

Press the REPEAT button to repeat the same music you are now listening to.The "REPEAT" indicator will be illuminated. After finishing the music just listened to, the rewind starts automatically until the beginning of music, and the same music starts playing again. When you want to cancel repeat operation, press the REPEAT button again. The "REPEAT" indicator will be turned off. In the following conditions, repeat may not perform properly when:

- The blank space between recorded programs is less than 4 seconds.
- The cassette tape has an interrupting conversation recording. (There may be more than 4 seconds blank space in that portion of the tape.)
- There is a portion of the tape when the sound level is particularly low or there is no sound.
- The remaining playing time of a song is less than 10 seconds preceding the beginning of the next song before the REPEAT function is turned on.

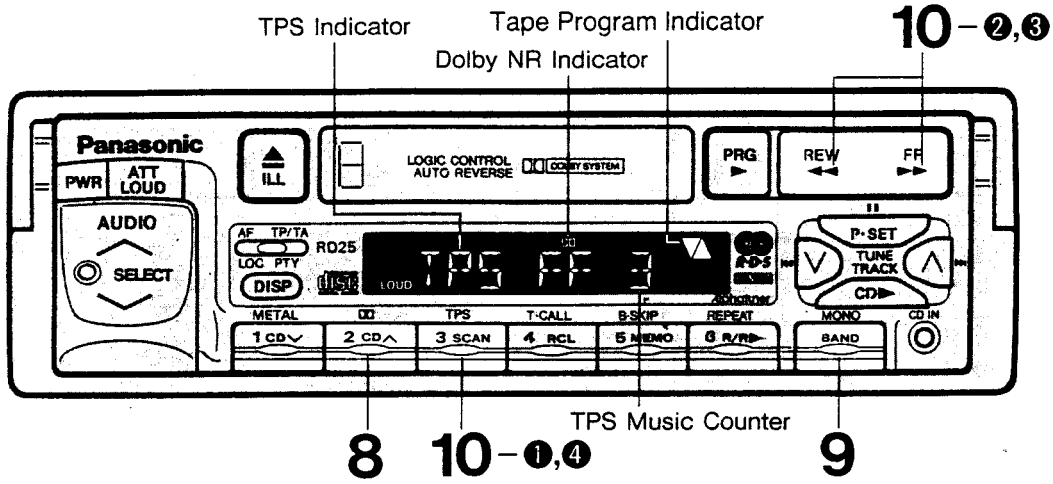
## 7 Metal Tape Selector

Press the METAL button for playing metal or chromium dioxide ($CrO_2$) tapes. The "MTL" indicator will be illuminated. Press the button again for playing normal tape. The "MTL" indicator will be turned off.

**Note**; Wrong setting will cause high frequency imbalance.

# Tape Play Operations (Cont'd.)

〈For CQ-RD25EN〉




## 8 Dolby Noise Reduction

Press the DD button to set the Dolby NR mode. " DD " indicator will be illuminated. To cancel the Dolby NR mode, press the same button again.

**Note:** The Dolby NR circuit does not operate in the tuner (radio) mode.

## 9 To change to the tuner mode

Press the BAND button to change the mode from tape to tuner operation. The tape playback will stop and the radio can be heard.

**Note:** If you want to listen to the tape again, press the "PRG ▶" button.

## 10 TPS Operation (Tape Program Search)

❶Press the TPS button. " TPS " indicator will be illuminated. Then press the " FF ▶▶ " or " REW ◀◀ " button according to the numbers of the program (music) you want to select. The TPS will find the starting point of up to nine music programs in a prerecorded music tape. The number of program (music) is shown on the display panel.

**❷Forward TPS:**

Press the " FF ▶▶ " button once to go to the next program on your tape. Press twice to go to the second program. And so on, up to the ninth program ahead of your present position. The TPS music counter shows the number of program selected ("1 - 9"). Play begins automatically when the program is found.

**❸Rewind TPS:**

Press the " REW ◀◀ " button once to go back to the beginning of the program you are now listening to. Press twice to go to the previous program. And so on, up to the ninth program before your present position (including the program you are now listening to). The TPS music counter shows the number of program selected ("0 - 8"). Play begins automatically when the program is found.

❹To cancel this function, press the TPS button again.

**Tapes not suitable for TPS operation:**

The TPS circuitry may not function properly for tapes described below, causing tapes to stop midway through a program or to overrun the space between programs.

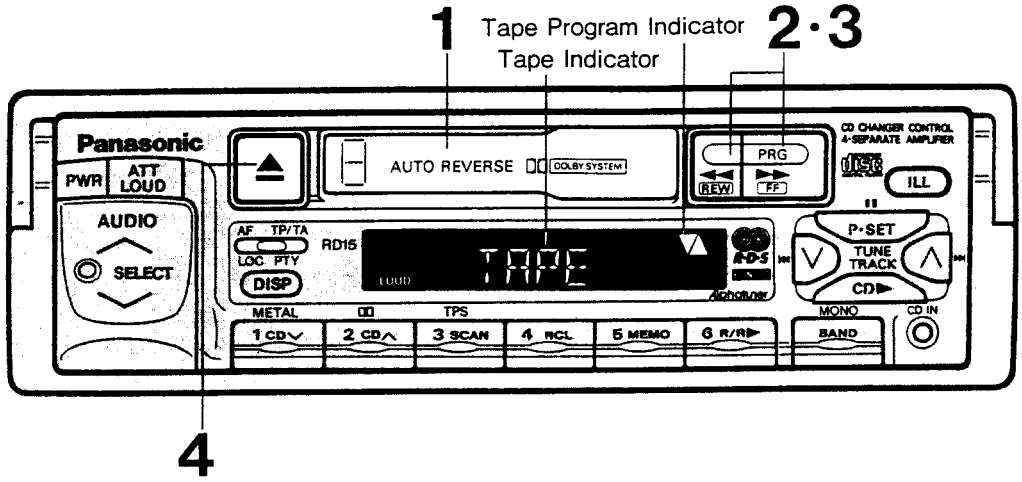
- Tapes which contain intermittent sound program, such as conversation, lectures, news, pianissimo-featured classical music, or music that includes many silent or mute passages.
- Tapes which have a very short time interval (less than 4 seconds) between recorded programs.
- Tapes which have a high level of noise or hum noise between programs.

## Note on Cassette Tape

We strongly recommend not using tapes longer than C-90 (90 minutes), unless absolutely necessary.

# Tape Play Operations (Cont'd.)

〈For CQ-RD15EN〉




## 1 Cassette Slot

- Insert the cassette with the exposed tape side facing to the right. Gently push the cassette in until the mechanism captures the cassette.
- After the loading is completed, the display changes to "TAPE" and the tape program indicator(▲ or ▼) will be illuminated, playback starts.

## 2 Tape Program Selector

Press both buttons ("REW", "FF") firmly if you want to change the program of tape play.
The tape program indicator "TAPE ▲" or "TAPE ▼" will be illuminated. Otherwise, tape program will change automatically at the end of the tape (Auto Reverse System).

**Tape program indicator ("TAPE ▲" or "TAPE ▼")**

The tape program indicator is displayed during tape mode operation.
"TAPE ▲" : Displays the top side of the cassette is being played.
"TAPE ▼" : Displays the bottom side of the cassette is being played.
**Note**: "▲" or "▼" is always illuminated when the cassette tape is loaded.

## 3 Rewind/Fast Forward

- Press the "FF" button for fast forward. The tape program indicator (▲ or ▼) blink. When the tape reaches its end, Auto Reverse will operate and play back the opposite side of the tape.
- Press the "REW" button for rewind. The tape program indicator (▲ or ▼) blink. When the tape is fully rewound, the same side of the tape will be played.
- To stop rewind/fast forward operation, press the "FF" (or "REW") button lightly. Then the tape play will resume playing from that position.

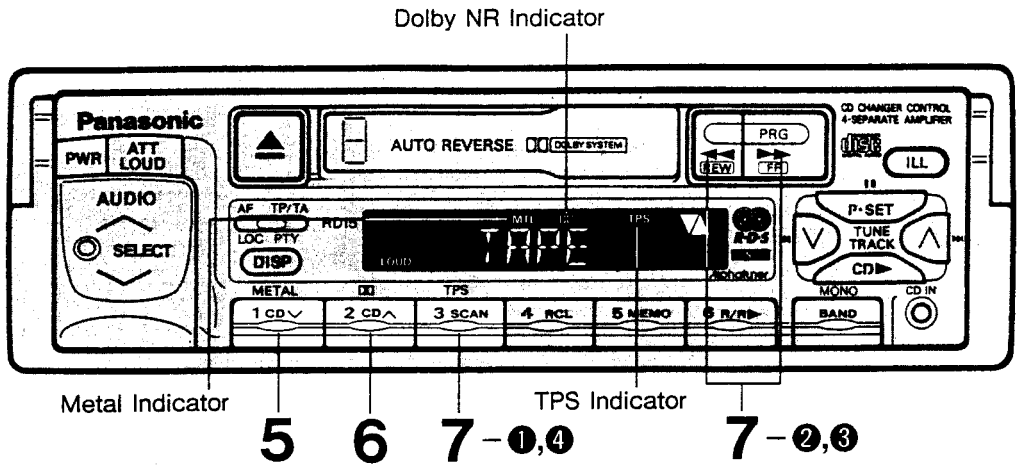
## 4 To eject the tape

Press the "⏏" button and the cassette will pop out for removal, and the previous mode of operation will be resumed.

**Note:** The cassette tape should always be removed from the cassette slot when not in use.

# Tape Play Operations (Cont'd.)

**〈For CQ-RD15EN〉**




## 5 Metal Tape Selector

Press the METAL button for playing metal or chromium dioxide ($CrO_2$) tapes. The "MTL" indicator will be illuminated.

Press the button again for playing normal tape. The "MTL" indicator will be turned off.

**Note;** Wrong setting will cause high frequency imbalance.

## 6 Dolby Noise Reduction

Press the DD button to set the Dolby NR mode. " DD " indicator will be illuminated. To cancel the Dolby NR mode, press the same button again.

**Note:** The Dolby NR circuit does not operate in the tuner (radio) mode.

## 7 TPS Operation (Tape Program Search)

❶ Press the TPS button. "TPS" indicator will be illuminated.

❷,❸ Press the "FF" or "REW" button. The unit will search for the beginning of the next or current song, respectively.

❹ To cancel this function, press the TPS button again.

**Tapes not suitable for TPS operation:**

The TPS circuitry may not function properly for tapes described below, causing tapes to stop midway through a program or to overrun the space between programs.

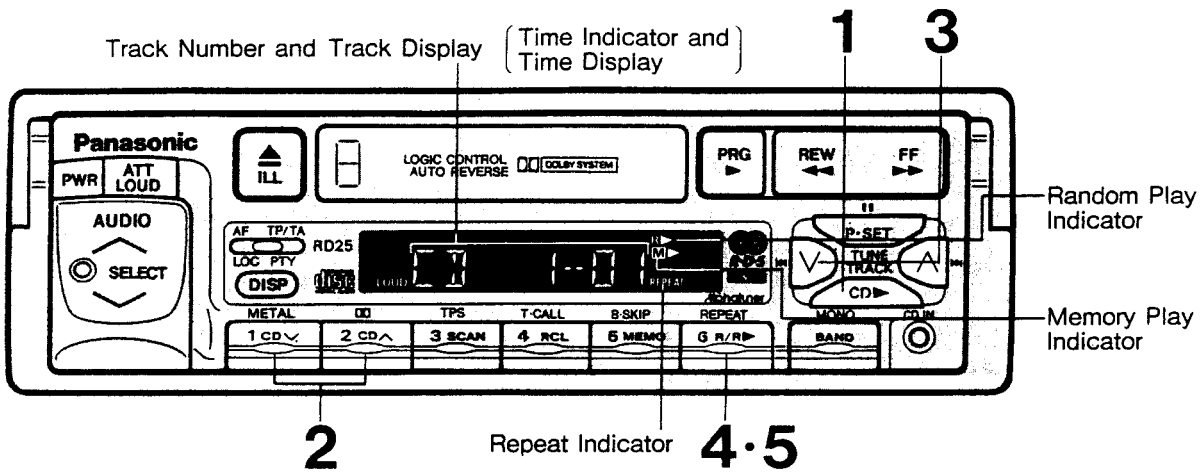
- Tapes which contain intermittent sound program, such as conversation, lectures, news, pianissimo-featured classical music, or music that includes many silent or mute passages.
- Tapes which have a very short time interval (less than 4 seconds) between recorded programs.
- Tapes which have a high level of noise or hum noise between programs.

## Note on Cassette Tape

We strongly recommend not using tapes longer than C-90 (90 minutes), unless absolutely necessary.

# CD Changer Controls Operation

(During CD changer playback, do not input from CD input jack.)




## 1 To start playback

Press this button to start playback.

**Note:** If this button is pressed for more than 2 seconds, "CD" is illuminated in the center of display and the mode changes to CD mode. Therefore press this button again and the mode must be returned to CD changer mode.

## 2 To select the disc that you want to listen to.

- Press "CD ∧" or "CD ∨" button during disc play to select the desired disc.
  Press "CD ∧" button to change the disc in upwards.
  Press "CD ∨" button to change the disc in downwards.
- The DISC No./TRACK No. "CD 1-01" and "CD LOAD" will be illuminated alternately until the disc is selected. Then, the selected disc will start to play from the first track. (The "CD ∧" or "CD ∨" button if operated, has priority over that of Random and Memory-play modes. The Random or Memory-play mode will stop and the disc select function will operate if the "CD ∧" or "CD ∨" button is pressed.)

## 3 To select the track that you want to listen to./To search the track

Press the "∨", "∧" button to select the desired track number.
Press the "∧" once to play the beginning of the next track.
Press "∨" once to play from the beginning of the track just listened to.
Press "∨" twice to play from the beginning of the previous track.
To search the track, press "∨" (⏮) or "∧" (⏭) continuously to fast backwards or fast forwards the disc.

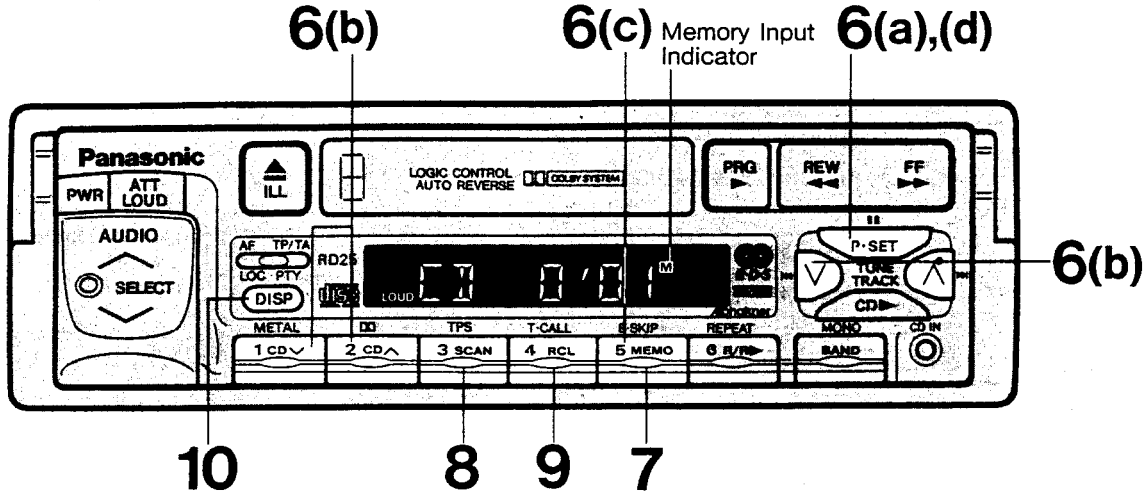
## 4 Repeat Play:

- Press the "R/R▶" button to repeat the track now being listened to when it reaches its end. ("REPEAT" indicator will be illuminated.)
- Press this button again to cancel the Repeat function.

## 5 Random Play:

- Press the "R/R▶" button for more than 2 seconds will bring you a continuous stream of songs chosen by an electronic "roll of the disc" from the CDs in the magazine. (At first, "R▶" indicator will be illuminated. "CD 1-01"and"CD LOAD" will be illuminated alternately.)
- Press this button again for more than 2 seconds to cancel the Random mode.

# CD Changer Controls Operation (Cont'd.)




## 6 Memory input:

(a) Press the "❚❚" button during CD playback. (The operation becomes pause mode.) And " P " indicator will be illuminated.

(b) Press the "CD ∨", "CD ∧" and " ∨", " ∧" button to select the disc and track number to be registered in memory.

(c) Press the "MEMO" button. The selected track is registered in memory and the " M " indicator will be illuminated. Repeat steps b. and c. for each of the remaining tracks to be stored in memory. A total of 35 tracks can be memorized.

(d) After all the desired tracks are memorized, press the "❚❚" button. Memory-play will start automatically from the first memorized track. " M▶ " indicator will be illuminated.

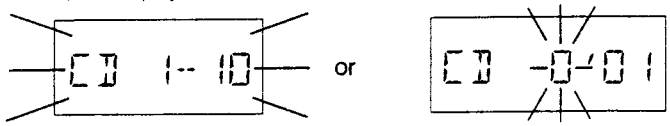
**Note:** To cancel memory input, press "MEMO" button for more than 2 seconds. The entire memory will then be cancelled.

## 7 Memory Play:

- Memory Play can be played back by pressing this button as long as the " M▶ " indicator is illuminated.
- Press this button or "CD▶" button again to cancel the Memory play.

## 8 Music scan

- Press this button to monitor the first ten seconds of track. It moves on the next music one after another.
- During the music scan mode, the display will blink as shown below.




- When you find your desired track during music scan mode, press this button again.

**Notes:**

- During the Memory-Play mode, only memorized music scan in order.
- During Random play mode, Music scan does not operate.

## 9 To check memorized disc/tracks.

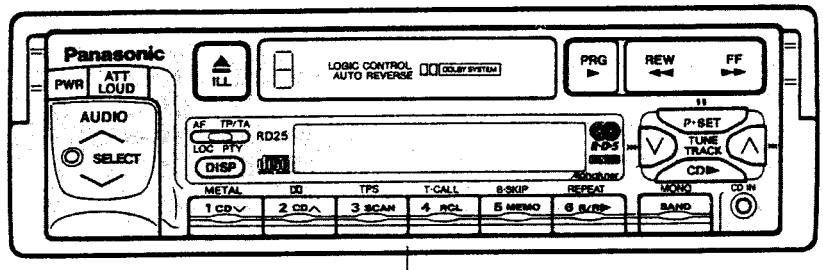
- Press the "RCL" button to check memorized disc/track.
- After showing all memorized disc/track, the display will resume to the previous display.
- Press the "RCL" button during the recall operation to resume to the previous display.

## 10 Display change:

During CD playback, press the DISP button to select either disc/track number or time counter display.

# Anti-Theft System

This removable unit gives you a chance to fight the rising tide of car radio theft. Now you can keep thieves from stealing your Panasonic car audio unit by removing it yourself when your car is left unattended.




**Handle:**
Use the handle to pull out the unit from its bracket and take it with you when you leave the car. SWITCH OFF THE UNIT BEFORE PULLING THE HANDLE TO REMOVE IT FROM THE CAR.

## How to Remove and Install the Unit

**Removal:**

1. Switch off the power.
2. Lift the handle. (Fig. 1, ❶)
3. Remove the unit from the bracket by pulling the handle firmly. (Fig. 1, ❷)

**Installation:**

Insert and push the main unit fully into its bracket. The unit will be locked in automatically.
A "click" sound can be heard when the safety lock is engaged.

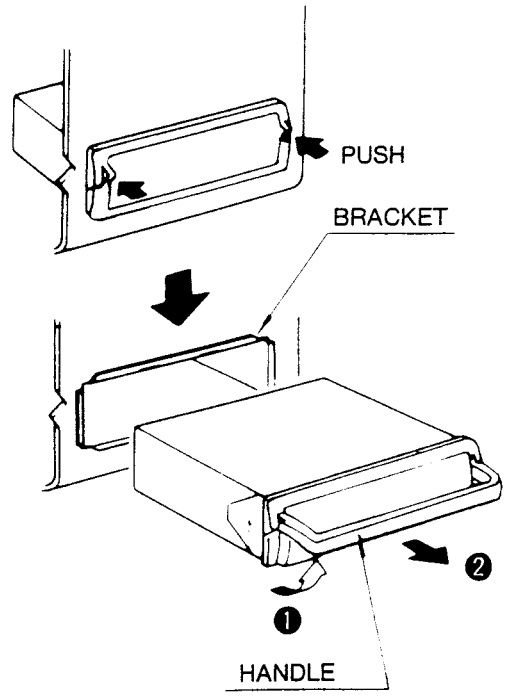



Fig. 1

**Caution;**

1. Before removing the unit, make sure it has been switched off.
2. It is dangerous to operate the unit with the safety lock released. Thus, when operating the unit be sure the handle is in its original down position, and always make sure the unit is fully pushed into the mounting bracket.
3. After operating the unit for several hours, it will become very hot especially on the right side. Please be aware of this and pay careful attention.
4. The unit is not water-proof. Therefore, do not expose it to water nor excessive moisture.
5. Do not abuse the unit by hitting, dropping or swinging the unit while carrying by its handle.
6. For safety reasons, do not remove the unit from its mounting bracket and avoid use of the presetting and programming function while driving your car.

# Installation

**Notes:**

- Before installation check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (−) battery terminal.

## Unit In-dash Installation

### Installation Opening

In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig. 2. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

## To Remove the Unit from the Quick Release Bracket

The unit is inserted and locked in the quick release bracket at the factory. The unit can be released by following the steps below:

1. Switch off the power.
2. Push the safety lock to release the unit from the bracket.
3. Lift the handle. (Fig. 3, ❶).
4. Remove the unit from its bracket by pulling the handle firmly. (Fig. 3, ❷).

## Installation Procedures

1. Insert the quick release bracket into the car's dashboard and bend the mounting springs correspondingly by means of a screwdriver, as shown in Fig. 3.
2. Before final mounting the quick release bracket to the car's dashboard, read "To Secure the Rear of the Quick Release Bracket" which is explained in the next page and check whether the rear of the unit is properly secured to the fire wall of car.
   Also check the electrical connections by referring to this installation instructions. Mount the quick release bracket to the car's dashboard as shown in Fig. 3.
3. Now insert the unit into the quick release bracket.
4. After installation reconnect the negative (−) battery terminal.

**Installation Parts List**

| Illust. No. | Description | Q'ty |
|---|---|---|
| ① | Quick Release Bracket | 1 |
| ② | Rear Support Strap | 1 |
| ③ | Hex. Bolt (5mmϕ x 25mm) | 1 |
| ④ | Hex. Nut (5mmϕ) | 2 |
| ⑤ | Spring Washer (5mmϕ) | 2 |
| ⑥ | Plain Washer (5mmϕ) | 2 |
| ⑦ | Toothed Lock Washer (5mmϕ) | 1 |
| ⑧ | Mounting Bolt (5mmϕ) | 1 |




Fig. 2

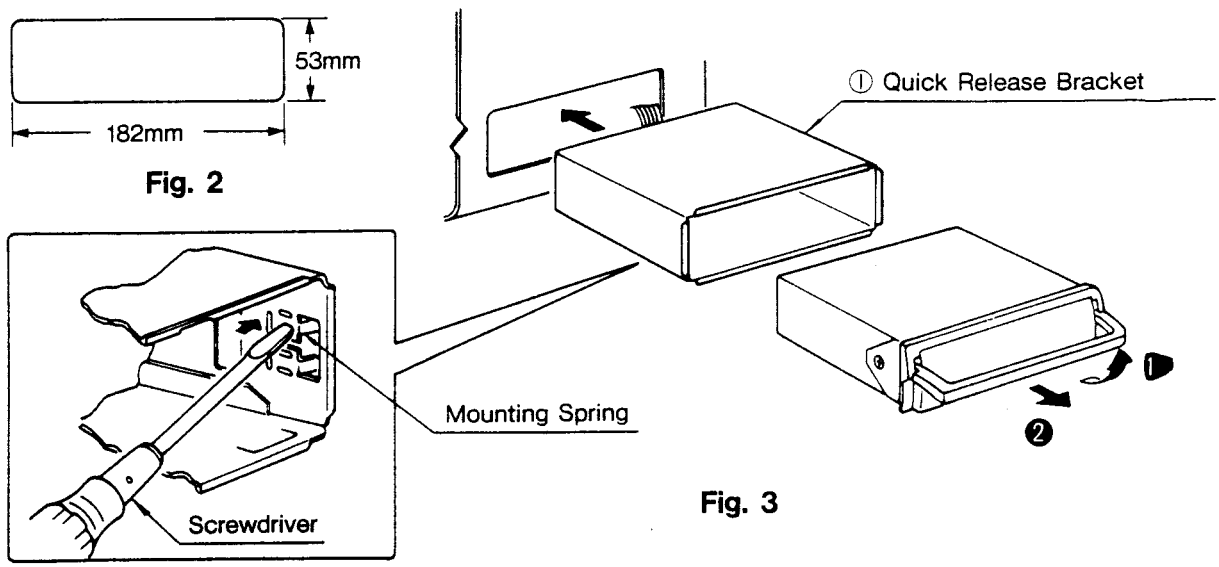



Fig. 3

## To Secure the Rear of the Quick Release Bracket:

### ■ Using the Rear Support Strap (See Fig. 4)

Fix one end of the rear support strap to the rear of the quick release bracket, and the other end to the Fire Wall of Car, or some other metallic area.

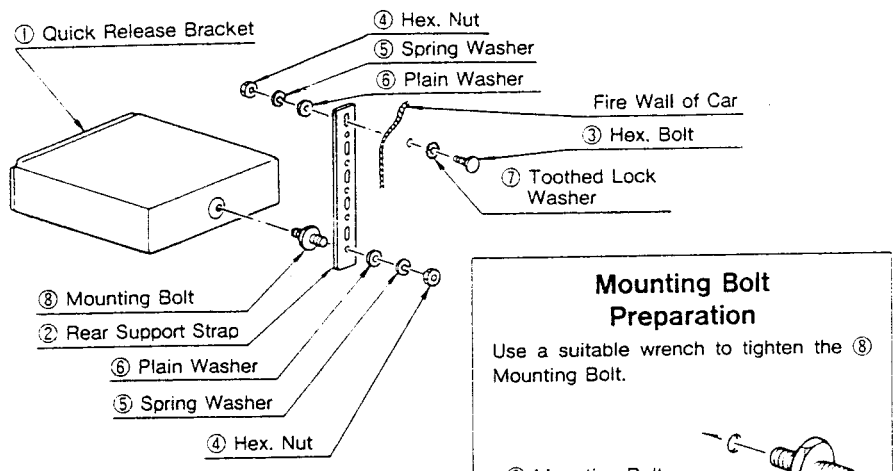



Fig. 4

**Caution:**

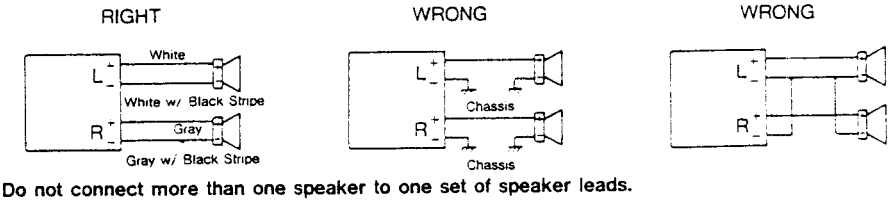
- Do not pull the handle and remove the unit when the safety lock is engaged.

# Speaker Connections

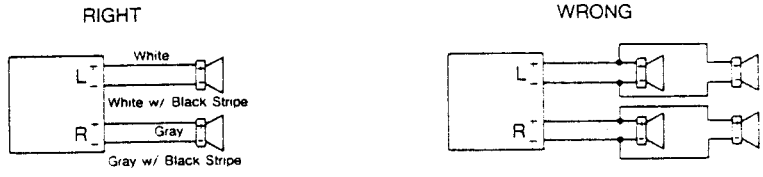
**CAUTION:**

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 25W (CQ-RD25EN), 22W (CQ-RD15EN) of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can result in damage to the speakers.
3. The speaker impedance should be 4 - 8 ohms. If the impedance is too large or too small, it affects the output and may result in damage to the speakers or this unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may result in damage to both unit and speakers.

- **Unit will be damaged if speakers (Front, Rear) are not connected properly.**




- **Do not connect more than one speaker to one set of speaker leads.**



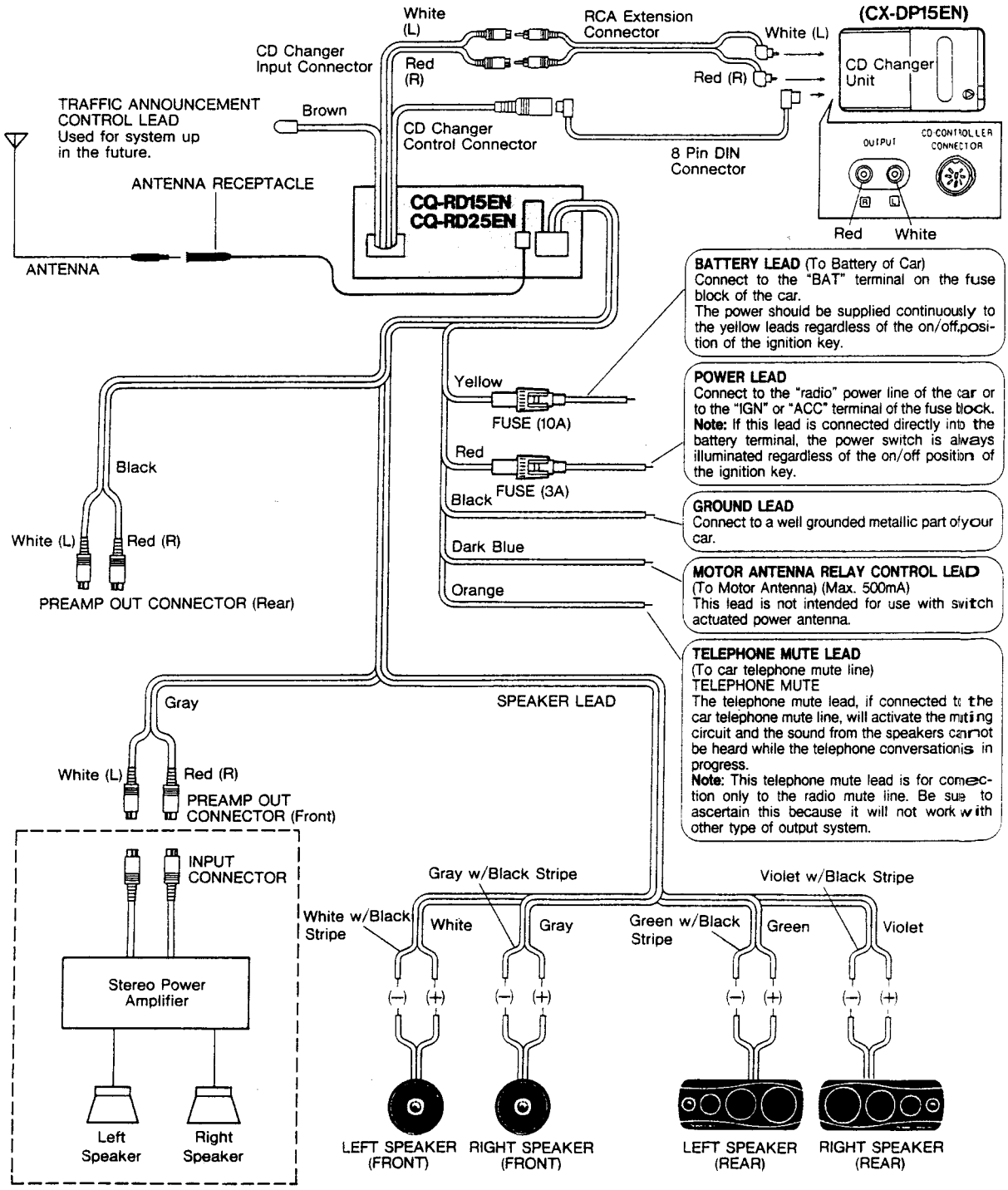
# Electrical Connection

## In combination with a CD Changer (CX-DP15EN)

- This unit can be connected an optional CD changer (CX-DP15EN).
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP15EN)

**Caution:**

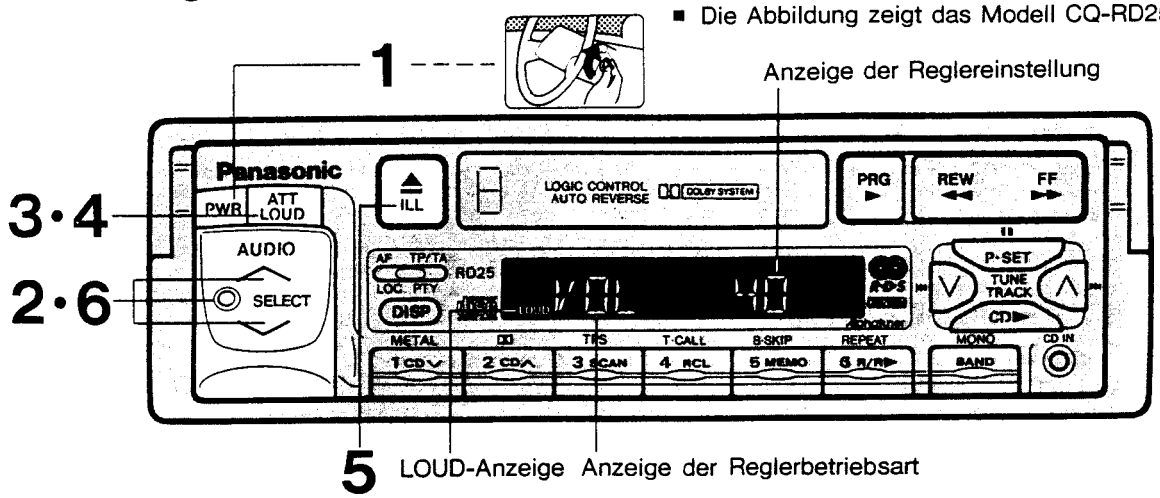
- To prevent damage to the unit be sure to follow the connection diagram below.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



# Bedieung

## Grundlegende Gerätebedienung

■ Die Abbildung zeigt das Modell CQ-RD25EN.




### 1 Einschalten des Gerätes:

Drehen Sie den Zündschlüssel auf ON (oder ACC), und betätigen Sie den Netzschalter des Gerätes.

### 2 Einstellung der Lautstärke:

Betätigen Sie die Reglertaste "∧", um die Lautstärke anzuheben.
Betätigen Sie die Reglertaste "∨", um die Lautstärke zu senken.
"VOL" und die Pegelanzeige ("0" - "40") leuchten nun auf.

### 3 Schnelles Senken der Lautstärke:

- Betätigen Sie die ATT-Taste. Die Lautstärke wird sofort auf 1/10 des vorigen Pegels gesenkt. Die Anzeige " ATT ON " blinkt.
- Betätigen Sie diese Taste erneut, um zum vorigen Lautstärkepegel zurückzukehren. (Siehe Abschnitt "Speicherung aller Einstellungen".)

### 4 Anheben der Höhen/Bässe bei geringer und mittlerer Lautstärke:

- Drücken Sie mindestens 2 Sekunden lang auf die LOUD-Taste, um die gehörrichtige Lautstärkeregelung (Loudness) einzuschalten. Die Baß- und Höhenfrequenzen werden verstärkt, wenn der Lautstärkepegel niedrig bis mittelhoch ist. (Dabei leuchtet die "LOUD"-Anzeige auf.)
- Betätigen Sie die LOUD-Taste erneut, um die Loudness-Funktion auszuschalten.

### 5 Umschalten der Beleuchtungsfarbe:

Die ILL-Taste drücken, um die Beleuchtungsfarbe von Grün auf Gelb oder umgekehrt umzuschalten.

**Hinweise:**

**Für CQ-RD15EN:** Die ILL-Taste drücken.
**Für CQ-RD25EN:** Die ILL-taste länger als 2 Sekunden drücken.

### 6 Wechseln der Reglerbetriebsart:

SELECT Mit jedem Tastendruck wechselt die Betriebsart in der Reihenfolge:

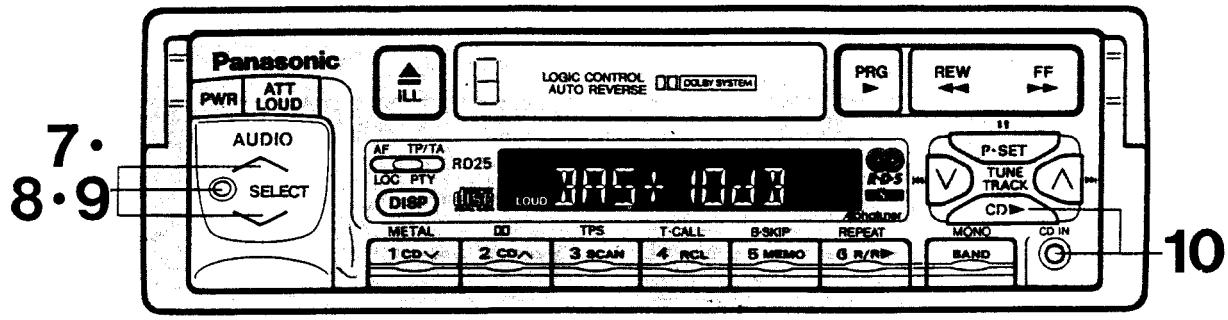
VOLUME (Lautstärke) → BASS → TREBLE (Höhen) ↓ BALANCE ← FADER ↑

### Speicherung aller Einstellungen:

Wenn Sie das Gerät ausschalten, bleiben alle Einstellungen dieses Augenblicks gespeichert. Wenn Sie das Gerät beim nächsten Mal wieder einschalten, werden alle beim vorigen Mal benutzten Einstellungen sofort wieder aktiviert.

**Hinweis:** Das Gerät ist mit einer Lautstärkeschock-Schutzschaltung ausgestattet, womit die beim letzten Mal gehörte Lautstärke automatisch reguliert wird. Das funktioniert so: Wenn Sie das Gerät bei ausgeschalteter ATT-Taste ausschalten und dann später wieder einschalten, wird der gespeicherte Lautstärkepegel zuerst automatisch um einen bestimmten Betrag gesenkt, um dann schrittweise wieder zum Pegel des vorigen Mals zurückzukehren.

# Grundlegende Gerätebedienung (Fortsetzung)




## 7 Einstellung von Baß- und Höhenpegel:

SELECT ❶Drücken Sie die SELECT-Taste, bis auf der Anzeige BASS (bzw. TRE) erscheint. Dabei leuchtet "BAS" ("TRE") auf.

❷Betätigen Sie die Reglertaste "∧", um die Bässe bzw. Höhen anzuheben.

❸Betätigen Sie die Reglertaste "∨", um die Bässe bzw. Höhen zu senken. Dabei leuchtet die Baß- bzw. Höhenanzeige ("+ 10dB"- "- 10dB") auf.

**Hinweis:** Die Bässe und Höhen können in den einzelnen Betriebsarten, d.h. bei FM (UKW)- und MW/LW-Empfang bzw. bei Band- und CD-Wiedergabe, unabhängig geregelt werden.

## 8 Einstellung der Links/Rechts-Balance:

SELECT ❶Betätigen Sie die SELECT-Taste, bis auf der Anzeige BALANCE erscheint. "BAL" leuchtet dann auf.

❷Drücken Sie auf die "∧" Reglertaste, um das Klanggewicht zu den rechten Lautsprechern hin zu verschieben.

❸Drücken Sie auf die "∨" Reglertaste, um das Klanggewicht zu den linken Lautsprechern hin zu verschieben. Dabei leuchtet die Balance-Anzeige ("1" - "15") auf.

## 9 Einstellung der Vorne/Hinten-Balance:

SELECT ❶Betätigen Sie die SELECT-Taste, bis auf der Anzeige FADER erscheint. "FAD" leuchtet dann auf.

❷Drücken Sie auf die Reglertaste "∧", um das Klanggewicht zu den vorderen Lautsprechern hin zu verschieben.

❸Drücken Sie auf die Reglertaste "∨", um den Klanggewicht zu den hinteren Lautsprechern hin zu verschieben. Dabei leuchtet die Fader-Anzeige ("1" - "15") auf.

## 10 Einstellen des CD-Eingangswählers

Die Taste "CD▶" niederdrücken, um eine Compact-Disc mit einem an die CD-Eingangsbuchse dieses Gerätes angeschlossenen Gerät (wie z.B. einem tragbaren CD-Spieler usw.) wiederzugeben. Das Gerät schaltet sich von der Tuner-Betriebsart (CD-Wechsler) auf die CD-Eingangs-Betriebsart um. "CD" leuchtet auf.

- Beim Drücken der Wellenbereichstaste schaltet sich das Gerät von der CD-Eingangs-Betriebsart auf die Tuner-Betriebsart (CD-Wechsler) zurück.

**Vorsicht:**

**Für CQ-RD15EN:** Wenn die Taste "CD▶" bei eingesetzter Cassette gedrückt wird, erfolgt keine Umschaltung auf die CD-Betriebsart. Soll auf die CD-Betriebsart umgeschaltet werden, die Cassette auswerfen.

**Für CQ-RD25EN:** Selbst bei eingesetzter Cassette erfolgt eine Umschaltung auf die CD-Betriebsart, wenn die Taste "CD▶" gedrückt wird.

**Anzeigebeispiel der Links/Rechts-Balance:**

Rechts-Balancepegel 15



Links-Balancepegel 15



Links/Rechts-Balancemitte

**Anzeigebeispiel der Vorne/Hinten-Balance:**

Vorne-Balancepegel 15



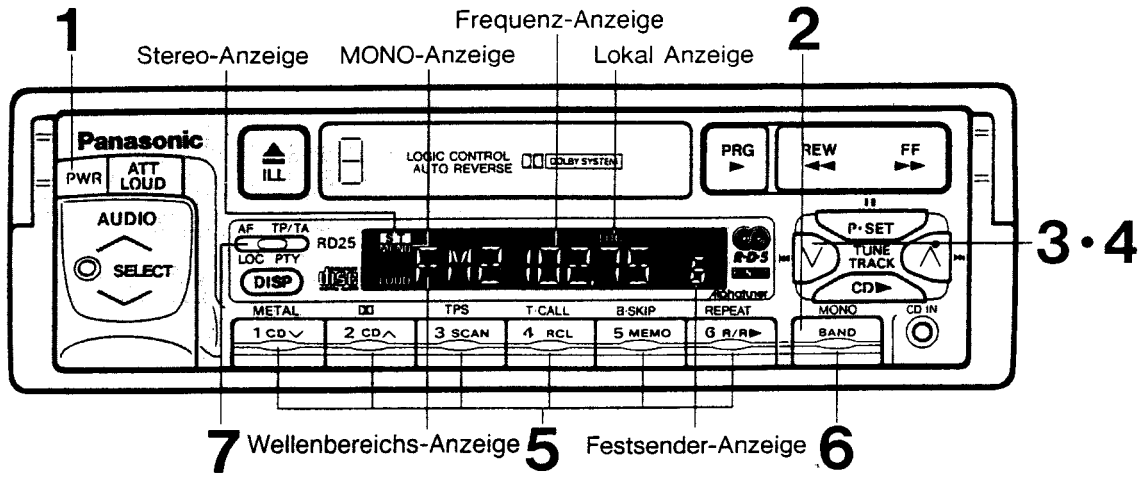
Hinten-Balancepegel 15



Vorne/Hinten-Balancemitte

Wenn Sie eine Betriebsart gewählt haben, binnen fünf Sekunden aber keine Einstellung vornehmen, springt die Anzeige wieder in den normalen Zustand (Lautstärke-Einstellung) zurück. Zur Wahl der nächsten Betriebsart brauchen Sie nur wieder die SELECT-Taste zu drücken.

# Rundfunkempfang




## 1 Umschalten auf Tuner-Betrieb

Betätigen Sie die PWR-Taste.

## 2 Wahl eines Wellenbereichs

Mit jedem Tastendruck schaltet der Tuner auf den nächsten Wellenbereich, und zwar in dieser Folge:

FM1 → FM2 → AM(LW/MW)

Der Tuner ist zuerst auf FM1 eingestellt.

## 3 Manuelle Abstimmung

Mit den Tasten "∨TUNE" oder "TUNE∧" können Sie auf niedrigere oder höhere Frequenzen wechseln.

## 4 Sendersuchlauf

Drücken Sie mindestens eine halbe Sekunde lang auf die TUNE-Tasten "∨TUNE" oder "TUNE∧", um den Sendersuchlauf zu aktivieren. Der Tuner stimmt automatisch auf den nächsten starken Sender ab. Setzen Sie diesen Bedienungsvorgang fort, bis Sie den gewünschten Sender auffinden.

## 5 Abruf gespeicherter Sender

Vorher eingestellte Sender lassen sich mit den Festsendertasten abrufen. (Siehe Seite 25.)

## 6 Störungsbeseitigung bei Empfang verrauschter UKW-Stereosendungen (MONO-Taste)

Bei stark verrauschten UKW-Stereosignalen bzw. zur Verbesserung der Empfangsqualität schwacher UKW-Stereosendungen die MONO-Taste mindestens 2 Sekunden lang drücken, um auf MONO-Empfang umzuschalten.

## 7 Umschaltung von Fernempfang auf Ortssenderempfang

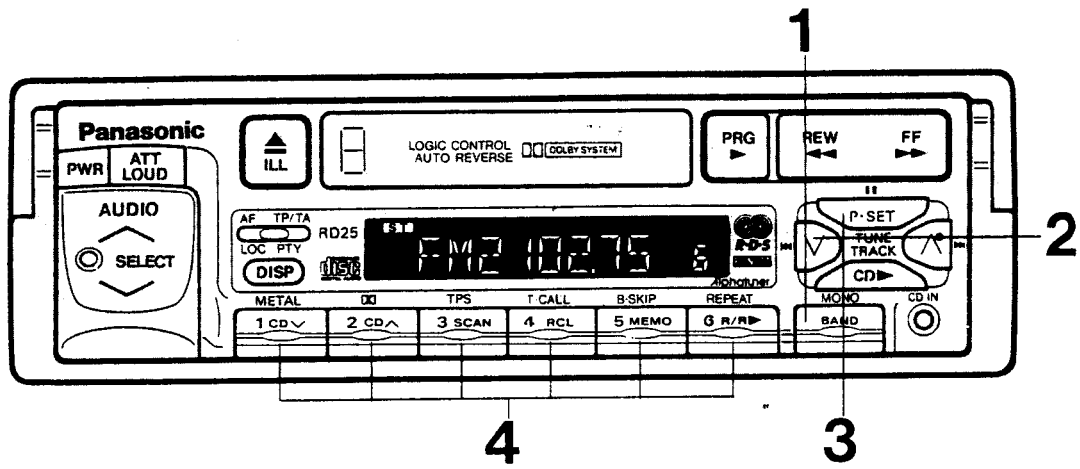
In der Regel stoppt der Suchlauf auch bei relativ schwachen Sendern.
Damit beim Sendersuchlauf ausschließlich starke Stationen berücksichtigt werden, diese Taste mindestens 2 Sekunden lang gedrückt halten.

# Rundfunkempfang (Fortsetzung)

## Einstellung von Festsendern

Bis zu 24 Sender lassen sich im voraus abstimmen und speichern:

| FM1 (UKW1) | FM2 (UKW2) | AM(LW/MW) | TP |
|---|---|---|---|
| 6 Sender | 6 Sender | 6 Sender | 6 Sender |




### 1 Wahl eines Wellenbereichs

Drücken Sie diese Taste, um FM1(UKW1), FM2(UKW2) oder AM(LW/MW) zu wählen.
(Einzelheiten über die TP-Betriebsart sind auf Seite 27 angegeben.)

### 2 Abstimmen eines gewünschten Senders

Stimmen Sie den gewünschten Sender entweder manuell oder über die Sendersuchlauf-Funktion ab.

### 3 Automatische Abspeicherung von Festsendern und automatischer Suchlauf

**Automatische Abspeicherung von Festsendern:**

Diese Taste mindestens zwei Sekunden lang gedrückt halten. Die sechs stärksten Sender im eingestellten Wellenbereich werden der Reiche nach automatisch den sechs Festsendertasten (1 - 6) zugeordnet. Sobald die automatische Abspeicherung der Festsender beendet ist, beginnt der Suchlauf ab dem Festsender 1. Die P·SET-Taste oder die gewünschte Festen der Taste drücken, wenn der gewünschte Sender erreicht ist. Dies kann auf jedem Wellenbereich durchgeführt werden.

**Automatischer Suchlauf:**

Diese Taste 5 Sekunden lang drücken, um den Festsender-Suchlauf durchzuführen. Bei Erreichen des gewünschten Senders einfach die P·SET-Taste erneut drücken, um den automatischen Suchlauf zu beenden.

**Hinweis:** Kontinuierlicher Suchlauf ist bei FM1, FM2 nicht möglich.

### 4 Abspeichern eines Senders

Drücken Sie eine der Festsendertasten mehrere Sekunden lang. Lassen Sie die Taste los, wenn die Wellenbereichsanzeige und die Senderfrequenz einmal aufblinken. Der Sender ist damit eingespeichert. Speichern Sie weitere Sender auch anderer Wellenbereiche auf gleiche Weise ab.

**Hinweis:** Falls Sie einmal versehentlich eine Festsendertaste mehrere Sekunden lang drücken; wird der dort eingespeicherte Sender gelöscht und stattdessen der Sender der gegenwärtig gehörten Frequenz eingespeichert.

# Radio-datensystem (RDS)-Empfang

## A. AF-Empfang (UKW 1, UKW 2, TP-Betriebsart)

**1** **Den Ein/Aus-Schalter einschalten.**

### Alternative Frequenz (AF)

Die AF-Taste drücken, wenn Sie immer wieder das gleiche Programm hören möchten, solange das AF-Netzwerk vom RDS-System empfangen wird. Die "AF"-Anzeige leuchtet auf. Wenn das AF-Netzwerk nicht mehr gewünscht wird, die AF-Taste zum Ausschalten erneut drücken. Die "AF"-Anzeige erlischt.

- "AF" funktioniert nicht (selbst wenn "AF" eingeschaltet ist), wenn der RDS-Sender nicht mit einem AF-System ausgerüstet ist.

### Programmservice (PS)-Name

Wenn ein RDS-Sender eingestellt ist, wird der Name des Senders auf dem Anzeigefeld angezeigt. Soll die Frequenz angezeigt werden, die DISP-Taste drücken. Nach einigen Sekunden kehrt das Anzeigefeld wieder zur "PS"-Anzeige zurück.

### Programmkennungs (PI)-Suchlauf

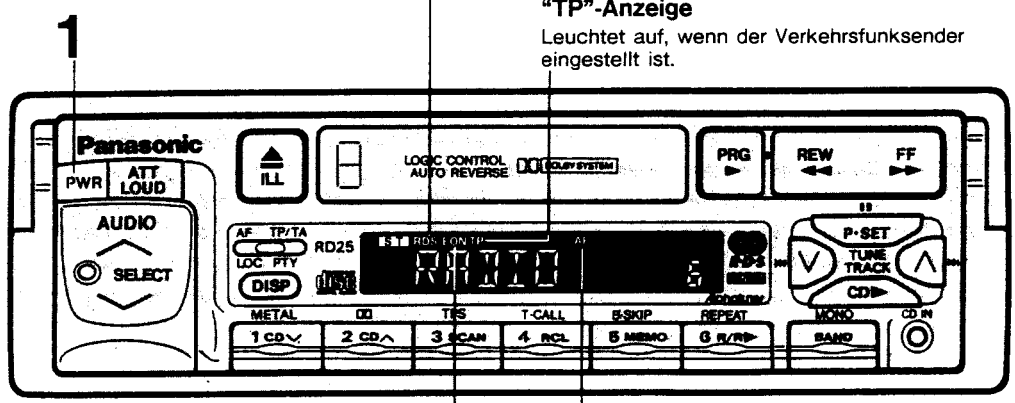
Falls ein RDS-Sender vorprogrammiert ist und nach dem Abrufen nur schlecht empfangen werden kann, beginnt die Suchlaufautomatik mit der Abstimmung auf das gleiche Programm. Um den PI-Suchlauf zu beenden, "AF" ausschalten.

Die PI-Suchlauffunktion ändert sich je nach der Einstellung des LOC-Schalters auf ON oder OFF wie folgt:

- **ON:** Suche nach einem Sender, der das gleiche Programm ausstrahlt.
- **OFF:** Suche nach einem generisch verbundenen Netzwerk, das möglicherweise ein anderes Programm ausstrahlt.

**"RDS"-Anzeige**
Leuchtet auf, wenn der RDS-Sender eingestellt ist.

**"TP"-Anzeige**
Leuchtet auf, wenn der Verkehrsfunksender eingestellt ist.

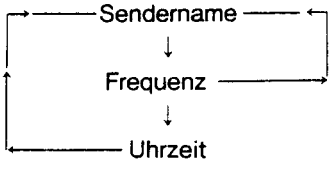



**"AF"-Anzeige**

**"EON"-Anzeige**
Leuchtet auf, wenn der Sender eingestellt ist, der bessere Informationen eines anderen Netzwerks ausstrahlt.

### Uhrzeit (CT)

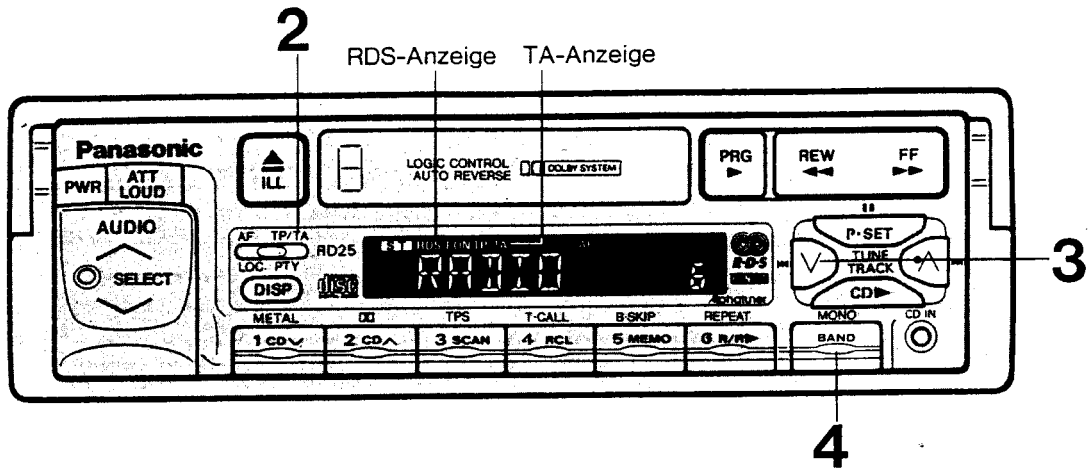
- Die Uhr wird beim Empfang von RDS CT-Daten automatisch berichtet.
- Beim Drücken der DISP-Taste ändert sich die auf dem Anzeigefeld angezeigte Information wie folgt:




Wenn die DISP-Taste nicht innerhalb von 5 Sekunden erneut gedrückt wird, zeigt das Anzeigefeld wieder automatisch den Sendernamen an.

# Radio-datensystem (RDS)-Empfang (Fortsetzung)

## B. TP-Empfang




### 2 Verkehrsfunkprogramm (TP)-Kennung

Die TP/TA-Taste drücken, um die Verkehrsinformationssendung zu empfangen. "TP" und die Frequenz werden angezeigt.

### 3 "TP"-Sendersuchlauf/Manuelle Abstimmung

Den Verkehrsfunksender mit Hilfe des Sendersuchlaufs (oder manuell) einstellen.

### 4 Um den "TP"-Verkehrsfunksender freizugeben

Die BAND-Taste drücken. Dadurch wird der vorher eingestellte Empfangsbereich (MW/LW, UKW1 oder UKW2) erneut empfangen.

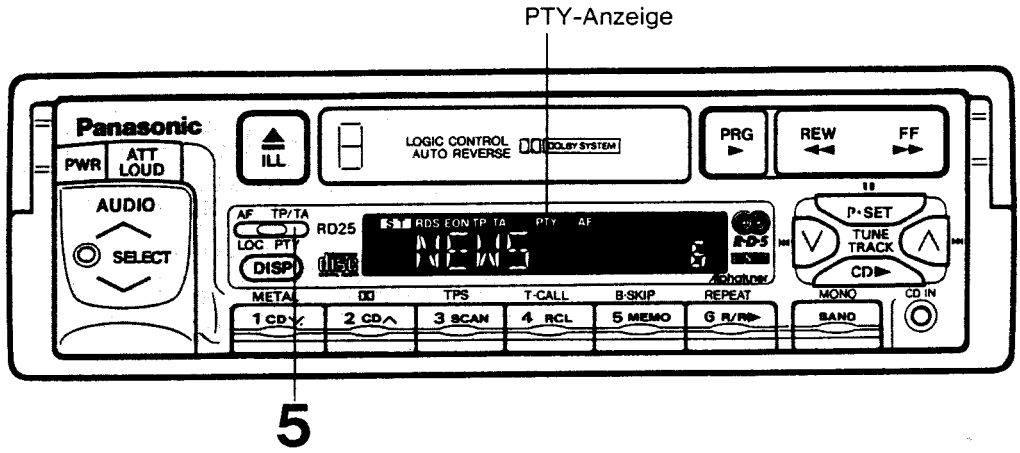
Wenn ein anderer Sender (nicht der gerade empfangene) Verkehrsinformationen auszustrahlen beginnt, während der EON TP-Sender in der TP-Betriebsart empfangen wird (wobei die "EON TP"-Anzeige aufleuchtet), wird dieser Sender zum Empfangen von Verkehrsinformationen gewählt. Wenn die Verkehrsfunksendung endet, wird der frühere Sender wieder empfangen. Diese Funktion ändert sich je nach der Einstellung des LOC-Schalters auf ON oder OFF wie folgt:

- **ON:** Verkehrsinformationen werden nur in dem Gebiet empfangen, in dem Sie sich gerade befinden.
- **OFF:** Verkehrsinformationen werden in der Umgebung des Gebietes empfangen, in dem Sie sich gerade beginnen.

**Hinweis:** Sollen Verkehrsinformationen empfangen werden, die ein anderer Sender ausstrahlt, die TP/TA-Taste drücken, um diese Funktion aufzuheben und wieder den früheren Sender zu empfangen.

# Radio-datensystem (RDS)-Empfang (Fortsetzung)

## C. TA-Empfang




### 5 Verkehrsdurchsagen (TA)-Kennung

Die "TP/TA"-Taste für erneute Einschaltung drücken. Dadurch wird auch "AF" automatisch eingeschaltet. Die "TA"- und "AF"-Anzeigen leuchten auf. Die TP-Abstimmung wird nur für den Empfang von "TP"-Verkehrsfunkprogrammen verwendet. Andere Programme werden dadurch unterdrückt. Die TP/TA-Taste zum Ausschalten nochmals drücken. Die "TA"-Anzeige erlischt.

**Hinweise:**

1. Band- oder CD-Wiedergabe ist der "TP"-Sender automatisch zu hören, solange "TP/TA" eingeschaltet ist.
2. Wenn die "TP"-Anzeige erlischt, funktioniert der "TP" Sendersuchlauf automatisch. (Dies gilt auch bei Bandwiedergabe.)
3. Wenn die manuelle Abstimmung wirksam ist, steht die TA-Funktion nicht zur Verfügung, und das Radio wird auf die TP-Betriebsart umgeschaltet, außer wenn "TP/TA" wieder eingeschaltet wird.
4. Wenn die Kassette bei "TP"-Verkehrsfunkempfang und aufleuchtender "TP"-Anzeige eingeschoben wird, so werden "TA" und "AF" automatisch eingeschaltet.

## D. Programmtyp (PTY)-Empfang

Wenn die PTY-Taste bei Empfang einer Sendung im UKW1- oder UKW2-Bereich gedrückt wird, so wird die PTY-Betriebsart gewählt, wobei die "PTY"-Anzeige aufleuchtet. Bei Empfang des RDS-Senders wird der Typ der gerade empfangenen Sendung angezeigt. Wird kein Sender empfangen, leuchtet die "NO-PTY"-Anzeige auf.

### Programmtyp suche

- Ein gewünschter Sendungstyp kann durch Drücken der TUNE-Tasten "∨" oder "∧" gewählt werden. Der gewählte Sendungstyp wird auf dem Anzeigefeld angezeigt.

**Beispiel:**

| Typ | Anzeigefeld |
|---|---|
| Nachrichten | NEWS |
| Sport | SPORT |
| Rockmusik | ROCK M |

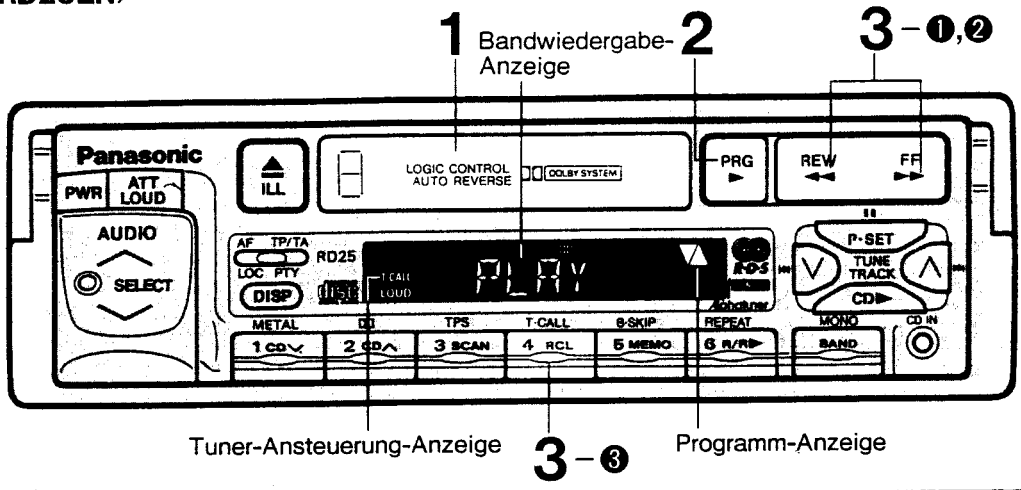
- Beim Drücken der P·SET-Taste wird automatisch ein Sender eingestellt, der den gewählten Sendungstyp ausstrahlt.
- Wenn eine der Tasten 1 bis 6 gedrückt wird, so wird ein Festsender abgerufen. Wenn eine dieser Tasten länger als 2 Sekunden gedrückt wird, so wird der mit Hilfe der TUNE-Tasten "∨" oder "∧" gewählte Sender im Speicher gespeichert.
- Wenn jetzt die Taste gedrückt wird, die mit dem Sendungstyp belegt ist, der mit dem gerade empfangenen übereinstimmt, wird ein Sender automatisch empfangen, der jenen Sendungstyp ausstrahlt.
- Wenn die DISP-Taste in der PTY-Betriebsart gedrückt wird, zeigt das Anzeigefeld Informationen in schwedischer Sprache an.

### Empfang von Notdurchsagen

Wenn eine Notdurchsage während der Wiedergabe einer Compact-Disc oder eines Bandes ausgestrahlt wird, so wird die UKW-Empfangsart automatisch gewählt, und die "ALARM"-Anzeige leuchtet auf. Nach der Notdurchsage wird wieder die frühere Empfangsart eingestellt.

# Cassettenwiedergabe

〈CQ-RD25EN〉




## 1 Cassettenschacht

- Cassetten mit der freien Bandseite nach rechts einlegen. Die Cassette behutsam in den Schacht schieben, worauf sie automatisch vom Gerät geladen wird.
- Nachdem das Laden beendet worden ist, schaltet sich das Anzeigefeld auf " PLAY " um, und die Bandprogramm-Anzeige (▲ oder ▼) leuchtet auf. Die Wiedergabe beginnt.

## 2 Cassettenprogrammwähler

Zum Ändern des Cassettenwiedergabeprogramms die "PRG"-Taste drücken. Die Programm-Anzeige " PLAY ▲" oder " PLAY ▼" leuchtet auf. Anderenfalls wird das Programm automatisch bei Erreichen des Bandendes gewechselt (Auto-Reverse-Funktion).

**Programm-Anzeige (" PLAY ▲" oder " PLAY ▼")**

Die Programm-Anzeige erscheint während Cassettenwiedergabe im Display.

" PLAY ▲" : Bedeutet, daß die obere Cassettenseite abgespielt wird.

" PLAY ▼" : Bedeutet, daß die untere Cassettenseite abgespielt wird.

**Hinweis:**

"▲" oder "▼" leuchtet stets auf, wenn die Cassette geladen wird (auch bei Rundfunkempfang oder CD-Betrieb).

## 3 Rücklauf/Schnellvorlauf

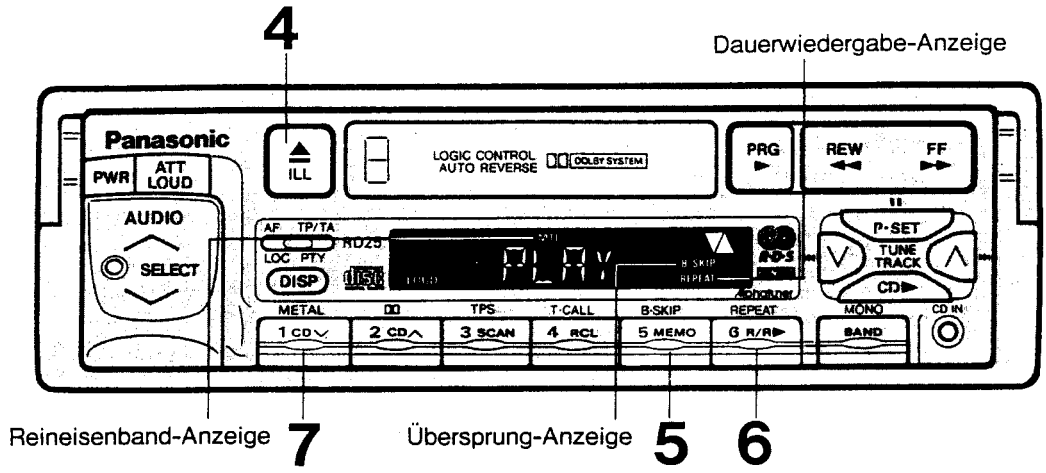
❶Durch Drücken der Taste "FF" wird der Schnellvorlauf aufgelöst. Die "▲" oder "▼"-Anzeige blinkt. Bei Erreichen des Bandendes spricht die Auto-Reverse-Funktion an, und die andere Cassettenseite wird wiedergegeben.

❷Durch Drücken der Taste "REW" wird der Rücklauf ausgelöst. Die "▲" oder "▼"-Anzeige blinkt. Wenn das Band ganz zurückgespult ist, beginnt die Wiedergabe wieder vom Anfang derselben Cassettenseite an. Zum Stoppen eines Rücklaufs/Schnellvorlaufs die "PRG"-Taste drücken. Die Wiedergabe wird dann von der jeweiligen Bandposition ab fortgesetzt.

❸Durch Drücken der T·CALL-Taste (Tuner-Abruf) während Rücklaufs/Schnellvorlaufs wird auf Tuner-Betrieb geschaltet. Die " FF "- oder " REW "-Anzeige ändert sich zur Senderfrequenzanzeige.

# Cassettenwiedergabe (Fortsetzung)

〈CQ-RD25EN〉




## 4 Die Cassette auswerfen.

Die Taste "⏏" drücken, wonach die Cassette zum Entfernen herausspringt und die frühere Betriebsart fortgesetzt wird.

**Hinweise:**

- Wird die Stromversorgung vor dem Drücken der Auswurftaste ausgeschaltet, so verbleibt die Cassette im Schacht. In diesem Fall das Gerät wieder einschalten und die Cassette durch Drücken der Taste "⏏" auswerfen lassen.
- Die Cassette sollte bei Nichtgebrauch stets aus dem Cassettenschacht entfernt werden.

## 5 Leerstellen-Übersprung-Funktion

Mit Hilfe der Übersprung-Taste "B·SKIP" können lange signalfreie Bandstellen übergangen werden.
Die "B·SKIP"-Anzeige leuchtet auf. Diese Funktion ist sehr vorteilhaft, wenn Sie zum Beispiel einen verbliebenen unbespielten Bereich am Bandende überspringen und rasch den ersten Titel auf der anderen Cassettenseite hören wollen.

**Hinweise:**

- Ist die Funktion aktiviert, so leuchtet die Anzeige "B·SKIP". Bei Dauerwiedergabe läßt sich diese Funktion jedoch nicht aufrufen, da Dauerwiedergabe Vorrang vor Leerstellen-Übersprung hat.
- Der Leerstellen-Übersprung funktioniert auch nicht bei signalfreien Bandstellen von weniger als 15 Sekunden.

## 6 Dauerwiedergabe

Zur Wiederholung des gerade spielenden Titels die REPEAT-Taste drücken. Die "REPEAT"-Anzeige leuchtet auf. Bei Erreichen des Endes des gerade spielenden Titels setzt automatisch Rücklauf ein, das Band wird bis zum Anfang des Titels zurückgespult, und derselbe Title dann erneut abgespielt. Zum Abstellen der Dauerwiedergabe die REPEAT-Taste noch einmal drücken. Die "REPEAT"-Anzeige erlischt dann.
Unter den folgenden Bedingungen funktioniert die Dauerwiedergabe unter Umständen nicht richtig:

- Leerstellen zwischen den Titeln sind kürzer als vier Sekunden.
- Aufzeichnungen von Dialogen, die mit Pausen durchsetzt sind (möglicherweise mit Leerstellen von über vier Sekunden).
- Bandstellen mit extrem niedriger Lautstärke oder überhaupt keiner Klangaufzeichnung.
- Die vor Einschalten der Dauerwiedergabe verbleibende Spielzeit eines Titels bis zum Beginn des nächsten Titels beträgt weniger als zehn Sekunden.

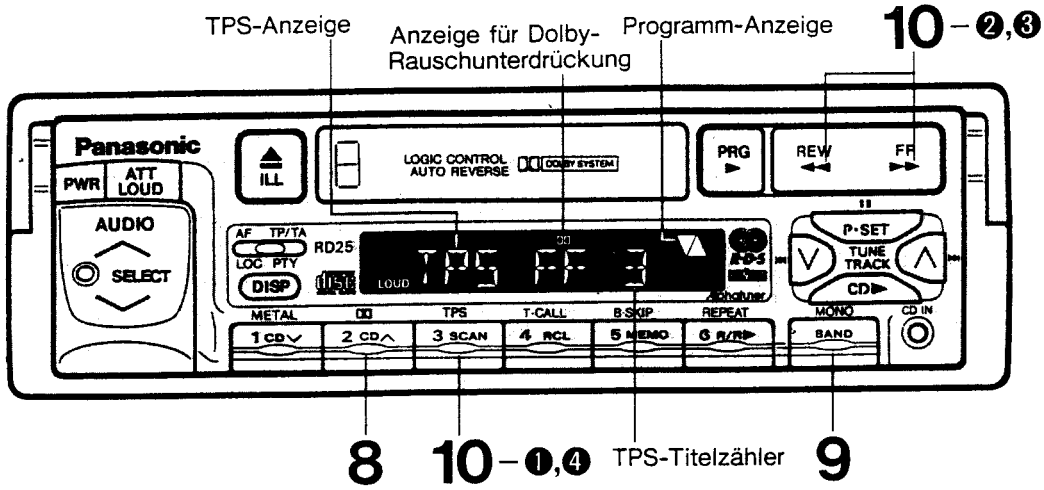
## 7 Reineisenbandtaste-Wähler

Die Reineisenbandtaste METAL drücken, um Reineisenbänder oder Chromdioxid ($CrO_2$)-Bänder wiederzugeben. Die Reineisenband-Anzeige "MTL" leuchtet auf. Die erwähnte Taste erneut drücken, um Normalbänder wiederzugeben. Die Reineisenband-Anzeige "MTL" erlischt.

**Hinweis**; Eine falsche Einstellung beeinträchtigt die Höhenwiedergabe.

# Cassettenwiedergabe (Fortsetzung)

〈CQ-RD25EN〉




## 8 Dolby-Rauschunterdrückung

Die Rauschunterdrückungstaste DD drücken, um das Gerät auf die Dolby-Rauschunterdrückungsbetriebsart einzustellen. Die Rauschunterdrückungs-Anzeige " DD " leuchtet auf. Um die Dolby-Rauschunterdrückungsbetriebsart aufzuheben, die erwähnte Taste erneut drücken.

**Hinweis:** Die Dolby-Rauschunterdrückungsschaltung ist bei Tuner-Betrieb funktionslos.

## 9 Umschalten auf Rundfunkempfang

Zum Umschalten von Cassettenwiedergabe auf Rundfunkempfang die BAND-Taste drücken. Die Cassettenbandwiedergabe stoppt dann, und Sie können Radio hören.

**Hinweis:** Um die Bandwiedergabe fortzusetzen, die Programmtaste " PRG ▶ " drücken.

## 10 Suche nach dem Beginn von Musiktiteln (Tape-Program-Search)

❶Die TPS-Taste drücken. Die " TPS "-Anzeige leuchtet auf. Dann die " FF ▶▶ "- oder die " REW ◀◀ "-Taste der Nummer des gewünschten Titels entsprechend oft drücken. Mit der TPS-Funktion können die Anfangsstellen von bis zu neun Titeln einer Musikcassette aufgefunden werden. Die Nummer des Titels wird auf dem Anzeigefeld angezeigt.

**❷Vorlauf-TPS:**

Die " FF ▶▶ "-Taste einmal drücken, um zum nächsten Titel auf dem Band zu gelangen. Die Taste zweimal drücken, um den zweiten Titel anzufahren. Auf diese Weise können bis zu neun Titel nach der gegenwärtigen Bandposition angesteuert werden. Im TPS-Titelzählwerk erscheint die Nummer des gewählten Titels (1 - 9). Wenn der Titel gefunden wird, beginnt die Wiedergabe automatisch.

**❸Rücklauf-TPS:**

Die " REW ◀◀ "-Taste einmal drücken, um zum Anfang des gerade spielenden Titels zurückzugelangen. Die Taste zweimal drücken, um den vorigen Titel zu hören. Auf diese Weise können bis zu neun Titel vor der gegenwärtigen Bandposition (einschließlich des gerade spielenden Titels) angesteuert werden. Im TPS-Titelzählwerk erscheint die Nummer des gewählten Titels (0 - 8). Wenn der Titel gefunden wird, beginnt die Wiedergabe automatisch.

❹Zum Abstellen dieser Funktion die TPS-Taste erneut drücken.

**Für TPS-Betrieb nicht geeignete Bänder:**

Bei Gebrauch einer der nachfolgend aufgeführten Cassetten kann es zu Fehlfunktionen der TPS-Schaltung kommen, so daß das Band innerhalb von Musiktiteln gestoppt oder ohne Berücksichtigung von Leerstellen weitertransportiert wird.

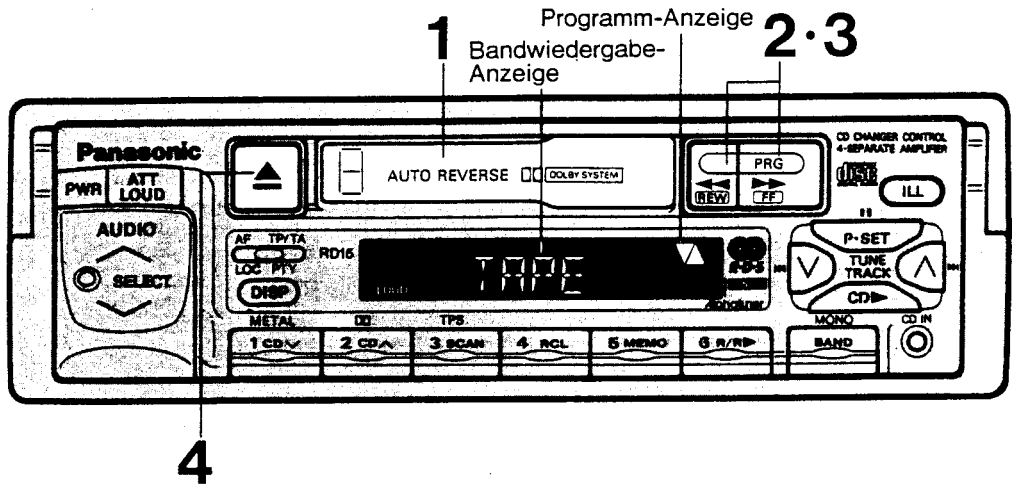
- Bänder mit intermittierenden Aufzeichnungen wie Dialogen, Vorträgen, Nachrichten, leise klassische Musik oder Musik mit klangfreien Passagen.
- Bänder mit sehr kurzen Leerstellen (weniger als vier Sekunden) zwischen den Titeln.
- Bänder mit hohem Rausch- oder Störpegel zwischen den Titeln.

## Hinweis zu Cassettenbändern

Wir empfehlen dringend, keine längeren Bänder als C-90 (90 Minuten) zu verwenden, außer wenn dies unbedingt erforderlich ist.

# Cassettenwiedergabe (Fortsetzung)

〈CQ-RD15EN〉




## 1 Cassettenschacht

- Cassetten mit der freien Bandseite nach rechts einlegen. Die Cassette behutsam in den Schacht schieben, worauf sie automatisch vom Gerät geladen wird.
- Nachdem das Laden beendet worden ist, schaltet sich das Anzeigefeld auf " TAPE " um, und die Bandprogramm-Anzeige (▲ oder ▼) leuchtet auf. Die Wiedergabe beginnt.

## 2 Cassettenprogrammwähler

Zum Ändern des Cassettenwiedergabeprogramms beide Tasten ("◀◀ REW", "▶▶ FF") fest drücken.
Die Bandprogramm-Anzeige (" TAPE ▲" oder " TAPE ▼") leuchtet auf. Anderenfalls wird das Programm automatisch bei Erreichen des Bandendes gewechselt (Auto-Reverse-Funktion).

**Programm-Anzeige (" TAPE ▲" oder " TAPE ▼")**

Die Programm-Anzeige erscheint während Cassettenwiedergabe im Display.
" TAPE ▲" : Bedeutet, daß die obere Cassettenseite abgespielt wird.
" TAPE ▼" : Bedeutet, daß die untere Cassettenseite abgespielt wird.
**Hinweis:** Die Anzeige "▲" oder "▼" leuchtet stets auf, wenn die Cassette geladen wird.

## 3 Rücklauf/Schnellvorlauf

- Durch Drücken der Taste "▶▶ FF" wird der Schnellvorlauf ausgelöst. Die Programmanzeige (▲ oder ▼) blinkt. Bei Erreichen des Bandendes spricht die Auto-Reverse-Funktion an, und die andere Cassettenseite wird wiedergegeben.
- Durch Drücken der Taste "◀◀ REW" wird der Rücklauf ausgelöst. Die Programmanzeige (▲ oder ▼) blinkt. Wenn das Band ganz zurückgespult ist, beginnt die Wiedergabe wieder vom Anfang derselben Cassettenseite an.
- Zum Stoppen eines Rücklaufs/Schnellvorlaufs die Taste "▶▶ FF" (oder "◀◀ REW") leicht drücken. Die Wiedergabe wird dann von der jeweiligen Bandposition ab fortgesetzt.

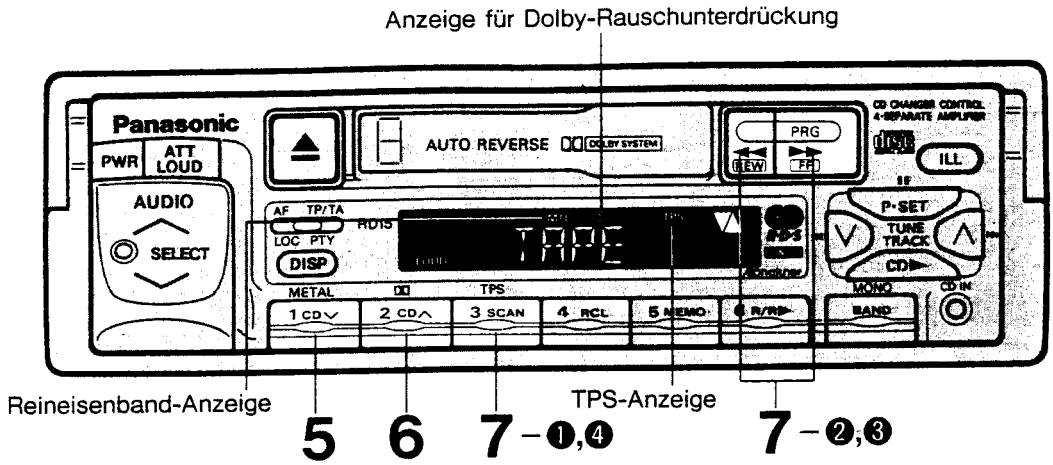
## 4 Die Cassette auswerfen.

Die Taste "⏏" drücken, wonach die Cassette zum Entfernen herausspringt und die frühere Betriebsart fortgesetzt wird.

**Hinweis:** Die Cassette sollte bei Nichtgebrauch stets aus dem Cassettenschacht entfernt werden.

# Cassettenwiedergabe (Fortsetzung)

〈CQ-RD15EN〉




## 5 Reineisenbandtaste-Wähler

Die Reineisenbandtaste METAL drücken, um Reineisenbänder oder Chromdioxid ($CrO_2$)-Bänder wiederzugeben. Die Reineisenband-Anzeige "MTL" leuchtet auf. Die erwähnte Taste erneut drücken, um Normalbänder wiederzugeben. Die Reineisenband-Anzeige "MTL" erlischt.

**Hinweis;** Eine falsche Einstellung beeinträchtigt die Höhenwiedergabe.

## 6 Dolby-Rauschunterdrückung

Die Rauschunterdrückungstaste ▯▯ drücken, um das Gerät auf die Dolby-Rauschunterdrückungsbetriebsart einzustellen. Die Rauschunterdrückungs-Anzeige " ▯▯ " leuchtet auf. Um die Dolby-Rauschunterdrückungsbetriebsart aufzuheben, die erwähnte Taste erneut drücken.

**Hinweis:** Die Dolby-Rauschunterdrückungsschaltung ist bei Tuner-Betrieb funktionslos.

## 7 Suche nach dem Beginn von Musiktiteln (Tape-Program-Search)

❶ Die TPS-Taste drücken. Die Anzeige "TPS" leuchtet auf.

❷,❸ Die Taste "▶▶ FF" oder "◀◀ REW" drücken. Je nach gedrückter Taste sucht das Gerät dann nach dem Anfang des nächsten oder des gerade abgespielten Titels.

❹ Zum Abstellen dieser Funktion die TPS-Taste erneut drücken.

**Für TPS-Betrieb nicht geeignete Bänder:**

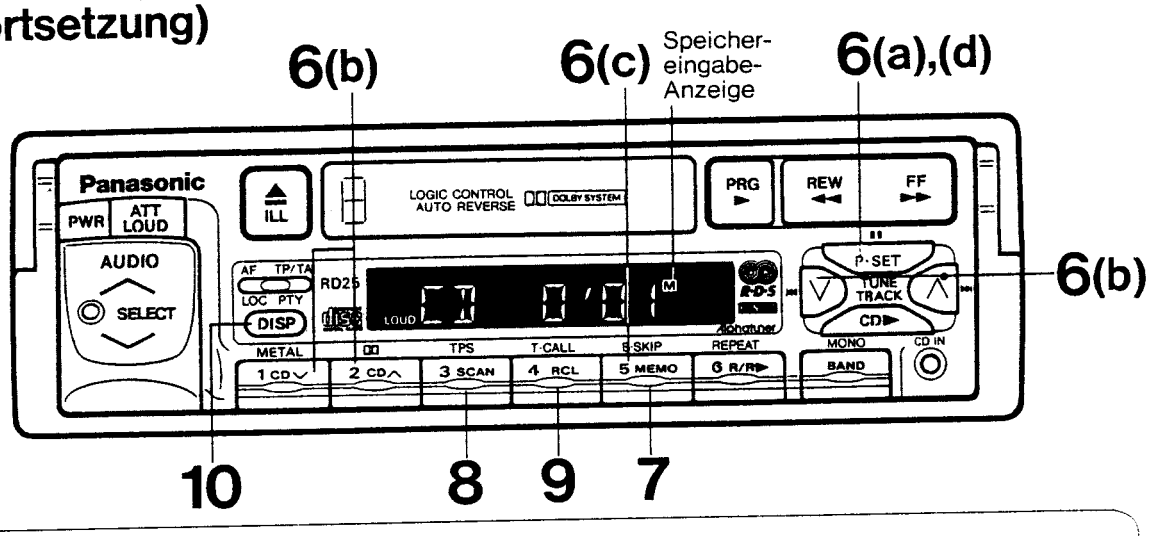
Bei Gebrauch einer der nachfolgend aufgeführten Cassetten kann es zu Fehlfunktionen der TPS-Schaltung kommen, so daß das Band innerhalb von Musiktiteln gestoppt oder ohne Berücksichtigung von Leerstellen weitertransportiert wird.

- Bänder mit intermittierenden Aufzeichnungen wie Dialogen, Vorträgen, Nachrichten, leise klassische Musik oder Musik mit klangfreien Passagen.
- Bänder mit sehr kurzen Leerstellen (weniger als vier Sekunden) zwischen den Titeln.
- Bänder mit hohem Rausch- oder Störpegel zwischen den Titeln.

## Hinweis zu Cassettenbändern

Wir empfehlen dringend, keine längeren Bänder als C-90 (90 Minuten) zu verwenden, außer wenn dies unbedingt erforderlich ist.

# Bedienung der Bedienungselemente des CD-Wechslers (Fortsetzung)




## 6 Speichereingabe:

(a) Die Taste "❚❚" während der CD-Wiedergabe drücken. (Das Gerät wird auf die Pausen-Betriebsart eingestellt.) Dabei leuchtet die Anzeige " P " auf.

(b) Die "CD ∧ / ∨"-Taste und " ∨ ", " ∧ "-Taste drücken, um den Disc/Titel-Nummer zu wählen, der im Speicher gespeichert werden soll.

(c) Die Speichertaste "MEMO" drücken. Der gewählte Titel wird im Speicher gespeichert, und die Speicheranzeige " M " leuchtet auf. Die Schritte b und c für jeden der verbleibenden Titel wiederholen. Insgesamt 35 Titel können gespeichert werden.

(d) Nachdem alle gewünschten Titel gespeichert worden sind, die Taste "❚❚" drücken. Die Speicherwiedergabe beginnt automatisch ab dem zuerst gespeicherten Titel. Die Speicher-Anzeige " M▶ " leuchtet auf.

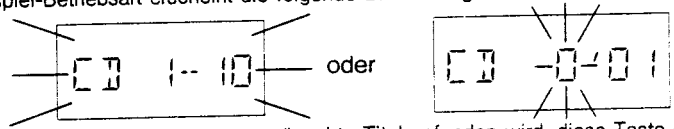
**Hinweis:** Um die Speichereingabe zu löschen, die Speichertaste "MEMO" länger als 2 Sekunden drücken. Der gesamte Speicherinhalt wird dann gelöscht.

## 7 Speicherwiedergabe:

- Eine Einstellung auf Speicherwiedergabe ist möglich, indem diese Taste gedrückt wird, während die Speicher-Anzeige " M▶ " aufleuchtet.
- Diese Taste oder die Taste "CD▶" erneut drücken, um die Speicherwiedergabe zu beenden.

## 8 Anspielen von Titeln

- Diese Taste drücken, um die ersten zehn Sekunden eines Titels anzuspielen. Ein Titel nach dem anderen wird auf diese Weise angespielt.
- Während der Titelanspiel-Betriebsart erscheint die folgende Blinkanzeige:




- Wenn während der Titelanspiel-Betriebsart der gewünschte Titel gefunden wird, diese Taste erneut drücken.

**Hinweise:**

- Während der Speicherwiedergabe-Betriebsart erfolgt das Anspielen der Titel nur in der gespeicherten Reihenfolge.
- Während der Zufallswiedergabe-Betriebsart ist das Anspielen von Titeln nicht möglich.

## 9 Überprüfen der programmierten Discs/Titel.

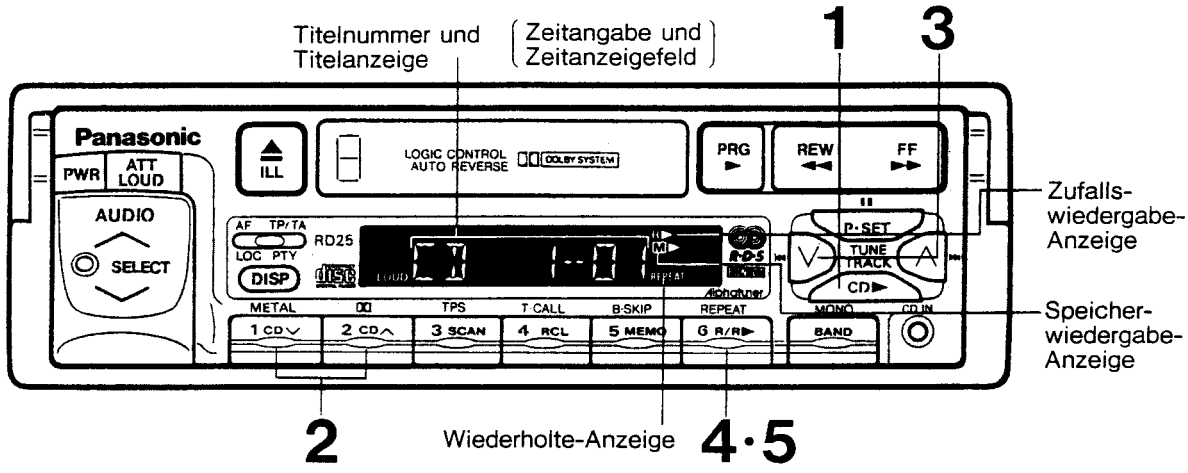
- Die Abruftaste "RCL" drücken, um die programmierten Discs/Titel zu überprüfen.
- Nachdem alle programmierten Discs/Titel angezeigt worden sind, zeigt das Anzeigefeld wieder die früheren Einzelheiten an.
- Die Abruftaste "RCL" während des Abrufvorgangs drücken, damit das Anzeigefeld wieder die früheren Einzelheiten anzeigt.

## 10 Anzeigewechsel:

Während der CD-Wiedergabe die Anzeigetaste DISP drücken, um entweder die Disc/Titel-Nummer oder den Zeitzähler anzuzeigen.

# Bedienung der Bedienungselemente des CD-Wechslers

(Während der Wiedergabe mit dem CD-Wechsler der CD-Eingangsbuchse keinen Eingang zuleiten.)




## 1 Wiedergabebeginn

Die Taste für Wiedergabebeginn drücken.

**Hinweis:** Wenn diese Taste mindestens 2 Sekunden lang niedergedrückt wird, leuchtet "CD" in der Mitte des Anzeigefeldes auf, und das Gerät schaltet sich auf die CD-Betriebsart um. Daher diese Taste erneut drücken, um das Gerät wieder auf die CD-Wechsler-Betriebsart umzuschalten.

## 2 Wahl der zum Wiedergeben vorgesehenen Disc.

- Die Taste "CD ∧" oder "CD ∨" während der Disc-Wiedergabe drücken, um die gewünschte Disc zu wählen.
  Die Taste "CD ∧" für Aufwärts-Disc-Wechsel drücken.
  Die Taste "CD ∨" für Abwärts-Disc-Wechsel drücken.
- Die Disc-Nummer DISC/Titel-Nummer TRACK "CD 1-01" und "CD LOAD" leuchten abwechselnd auf, bis die Disc gewählt worden ist. Dann beginnt die Wiedergabe der gewählten Disc ab dem ersten Titel. (Die Taste "CD ∧" oder "CD ∨", falls betätigt, ist gegenüber den Zufalls-und Speicherwiedergabe-Betriebsarten vorrangig. Beim Drücken der Taste "CD ∧" oder "CD ∨" wird die Zufalls- oder Speicherwiedergabe-Betriebsart aufgehoben und die Disc-Wahlfunktion wirksam gemacht.)

## 3 Wahl des zum Wiedergeben vorgesehenen Titels/Titelsuchlauf

Die Taste "∨", "∧" drücken, um die gewünschte Titel-Nummer zu wählen.
Die Taste "∧" einmal drücken, um mit der Wiedergabe ab dem Anfang des nächsten Titels zu beginnen.
Die Taste "∨" einmal drücken, um mit der Wiedergabe ab dem Anfang des gerade wiedergegebenen Titels zu beginnen.
Die Taste "∨" zweimal drücken, um mit der Wiedergabe ab dem Anfang des vorhergehenden Titels zu beginnen.
Für schnellen Rückwärts- oder Vorwärts-Titelsuchlauf die Taste "∨" ( ⏮ ) oder "∧" ( ⏭ ) niedergedrückt halten.

## 4 Wiederholte Wiedergabe:

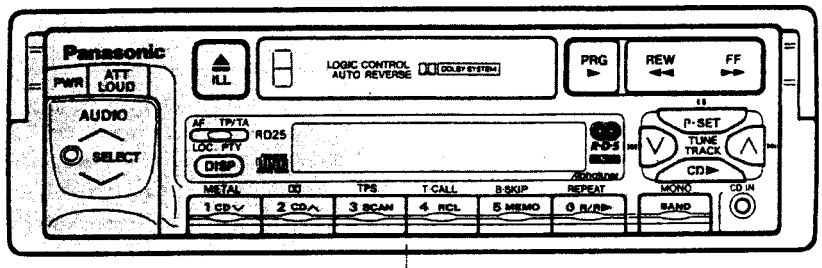
- Die Taste "R/R▶" drücken, um den gerade spielenden Titel zu wiederholen, wenn dieser sein Ende erreicht. (Die Anzeige "REPEAT" leuchtet auf.)
- Diese Taste erneut drücken, um die Wiederholfunktion zu beenden.

## 5 Zufallswiedergabe:

- Wenn die Taste "R/R▶" mindestens 2 Sekunden lang niedergedrückt wird, erfolgt eine fortlaufende Wiedergabe von Titeln, die durch ein elektronisches "Rollen der Disc" aus den Compact-Discs im Magazin ausgewählt werden. (Zuerst leuchtet die Anzeige "R▶" auf. "CD 1-01" und "CD LOAD" leuchten abwechselnd auf.)
- Diese Taste erneut mindestens 2 Sekunden lang niederdrücken, um die Zufallswiedergabe-Betriebsart aufzuheben.

# Diebstahlschutz

Dieses tragbare Gerät vereitelt der zunehmenden Zahl von Autoradiodieben den Zugriff. Wenn Sie das Auto unbewacht parken wollen, brauchen Sie Ihr Panasonic-Autoradio nur herauszunehmen.




**TRAGEGRIFF:**
Das Gerät am Tragegriff auf seiner Halterung herausziehen und beim Verlassen des Fahrzeugs mitnehmen. VOR DEM HERAUSZIEHEN DES GERÄTES AM HANDGRIFF UNBEDINGT DIE STROMVERSORGUNG AUSSCHALTEN.

## Herausnehmen und Einsetzen des Gerätes

**Herausnehmen:**

1. Die Stromversorgung ausschalten.
2. Den Tragegriff nach oben klappen (Abb. 1, ❶).
3. Das Gerät am Tragegriff aus seiner Halterung ziehen (Abb. 1, ❷).

**Einsetzen:**

Das Gerät in seine Halterung einsetzen und bis zum Anschlag hineinschieben.
Eine Sperre sichert das Gerät automatisch in seiner Lage. Beim Einrasten ist ein deutliches Klickgeräusch zu hören.

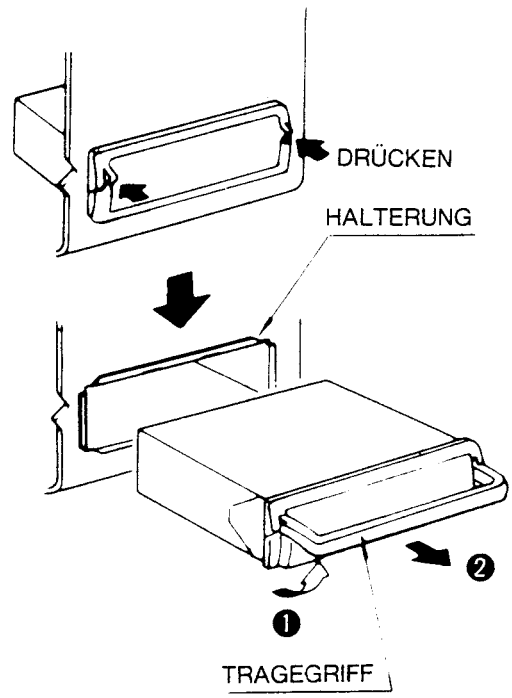



**Abb.1**

**Hinweise:**

1. Vor dem Entfernen des Gerätes unbedingt die Stromversorgung ausschalten.
2. Der Betrieb des Gerätes bei freigegebener Sperre ist gefährlich. Sicherstellen, daß der Tragegriff nach unten geklappt und das Gerät ganz bis zum Anschlag in die Halterung eingeschoben ist.
3. Nach mehreren Betriebsstunden wird das Gerät warm, besonders auf seiner rechten Seite. Bitte beachten Sie dies stets und verhalten Sie sich entsprechend.
4. Das Gerät ist nicht wasserdicht. Daher darf es auf keinen Fall mit Wasser in Berührung kommen oder extremer Feuchtigkeit ausgesetzt werden.
5. Das Gerät beim Transport am Tragegriff nicht anschlagen, hin- und herschwingen oder fallen lassen.
6. Im Interesse Ihrer eigenen Sicherheit sollten Sie während der Fahrt keine Speicheroperationen am Gerät ausführen und das Gerät auf keinen Fall aus seiner Halterung herausnehmen.

# Einbau

**Hinweise:**

- Vor dem Einbau des Gerätes mit Antenne und Lautsprechern überprüfen, ob der Tuner einwandfrei funktioniert.
- Das Massekabel vom Minuspol (−) der Batterie abklemmen.

## Einbau in das Armaturenbrett

**Einbauöffnung**

Falls im Armaturenbrett eine entsprechende Einbauöffnung wie in Abb. 2 gezeigt vorhanden ist, läßt sich das Gerät in das Armaturenbrett einbauen. Für einen solchen Einbau sollte das Armaturenbrett eine Dicke von 4,5 bis 6 mm haben.

## Herausnehmen des Gerätes aus der Schnellwechselhalterung

Bei Lieferung ist das Gerät in die Schnellwechselhalterung eingesetzt und verriegelt. Das Gerät läßt sich folgendermaßen aus der Halterung herausnehmen:

1. Die Stromversorgung ausschalten.
2. Die Sperre durch Drücken entriegeln, damit das Gerät freigegeben wird.
3. Den Tragegriff nach oben klappen. (Abb. 3, ❶).
4. Das Gerät am Tragegriff aus seiner Halterung ziehen. (Abb. 3, ❷).

## Einbau

1. Den Schnellwechselhalterung in den Armaturenbrett einsetzen und die Befestigungsfedern mit einem Schraubendreher wie in Abb. 3 gezeigt entsprechend biegen.
2. Vor dem endgültigen Montage des Schnellwechselhalterung unbedingt die Angaben unter "Sichere Befestigung der Schnellwechselhalterung an ihrer Rückseite" auf der nächsten Seite durchlesen und prüfen, ob die Halterungsrückseite fest mit der Fahrzeugkarosserie verbunden ist.
   Außerdem die elektrischen Verbindungen anhand der folgenden Einbauanweisungen überprüfen. Die Schnellwechselhalterung wie in Abb. 3 gezeigt am Armaturenbrett befestigen.
3. Nun das Gerät in die Halterung einschieben.
4. Nach dem Einbau das Massekabel wieder an den Minuspol (−) der Batterie anschließen.

**Einbau-Teileliste**

| Ref. Nr. | Benennung | Stückzahl |
|---|---|---|
| ① | Schnellwechselhalterung | 1 |
| ② | Einbauleiste | 1 |
| ③ | Sechskantschraube (5mmϕ x 25mm) | 1 |
| ④ | Sechskantmutter (5mmϕ) | 2 |
| ⑤ | Federscheibe (5mmϕ) | 2 |
| ⑥ | Unterlegscheibe (5mmϕ) | 2 |
| ⑦ | Verzahnte Sicherungsscheibe (5mmϕ) | 1 |
| ⑧ | Befestigungsschraube (5mmϕ) | 1 |




Abb. 2

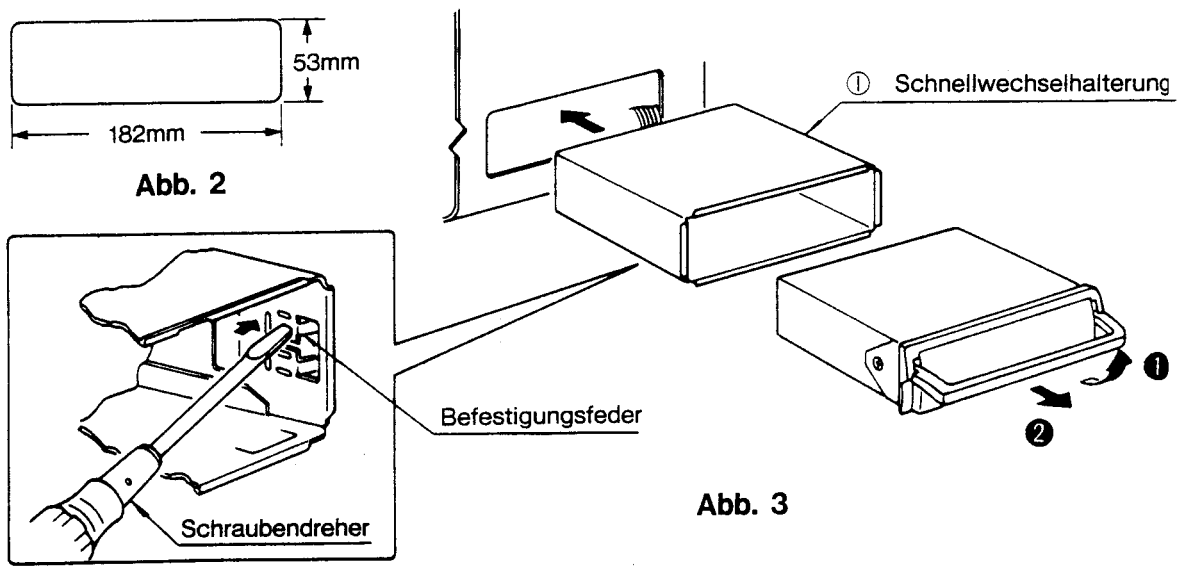



Abb. 3

## Sichere Befestigung der Schnellwechselhalterung an ihrer Rückseite:

**■ Verwendung der Einbauleiste (Siehe Abb. 4)**

Das eine Ende der Einbauleiste mit der Rückseite der Schnellwechselhalterung und das andere Ende an der Brandschutzwand des Fahrzeugs oder einer anderen metallischen Karosseriestelle anbringen.

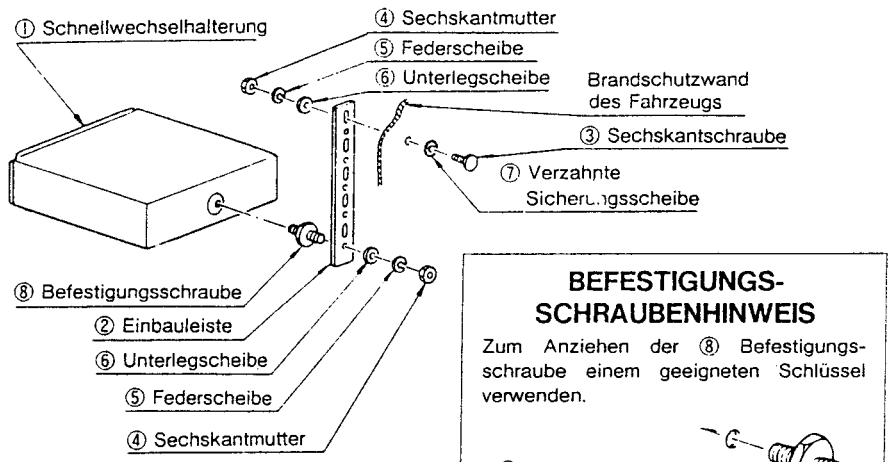



Abb. 4

**Achtung:**

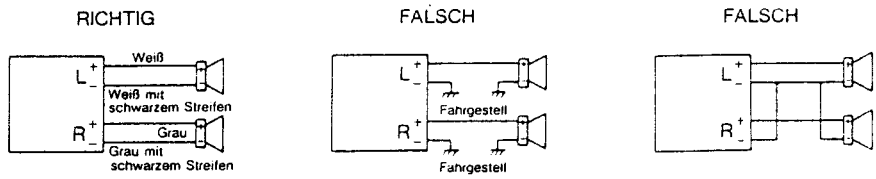
- Bei eingerasteter Sperre das Gerät auf keinen Fall am Handgriff aus der Halterung herausziehen.

# Anschluß der Lautsprecher

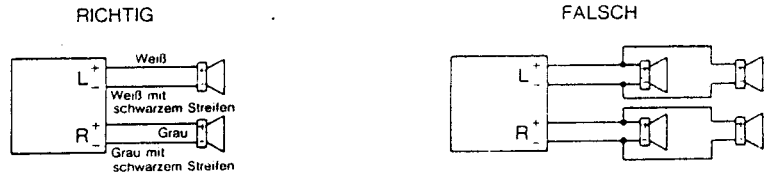
**Vorsichtsmaßregeln**

1. Nur ungeerdete Lautsprecher verwenden.
2. Die mit diesem Gerät verwendeten Lautsprecher sollen eine Musik-Belastbarkeit von über 25 W (CQ-RD25EN), 22 W (CQ-RD15EN) besitzen. Bei Verwendung eines Sonderzubehör-Verstärkers soll die Belastbarkeit der Lautsprecher der Höchstausgangsleistung des Verstärkers angepaßt sein. Lautsprecher mit zu geringer Belastbarkeit können beschädigt werden.
3. Die Impedanz der Lautsprecher soll 4 - 8 Ohm betragen. Eine zu große oder zu kleine Impedanz ist mit Leistungseinbußen verbunden und kann zu einer Beschädigung der Lautsprecher oder dieses Gerätes führen.
4. Kein 3-Kabel-Lautsprechersystem mit einer gemeinsamen Erdungsleitung verwenden. Das Lautsprecherkabel niemals an der Fahrzeugkarosserie anschließen. Dieses Gerät ist mit einer BTCL-Schaltung ausgestattet, so daß jeder Lautsprecher getrennt mit Parallelkabeln mit Vinylisolierung anzuschließen ist.
5. Lautsprecherkabel und Leistungsverstärker sind von Antenne und Antennenverlängerungskabel entfernt zu halten (etwa 30 cm auseinander).
6. Das folgende Anschlußschema genau beachten. Anderenfalls können Gerät und Lautsprecher beschädigt werden.

- **Gerät wird beschädigt, wenn Lautsprecher (vorne, hinten) nicht richtig angeschlossen sind.**




- **Nicht mehr als einen Lautsprecher an einen Lautsprecherleitungssatz anschließen.**



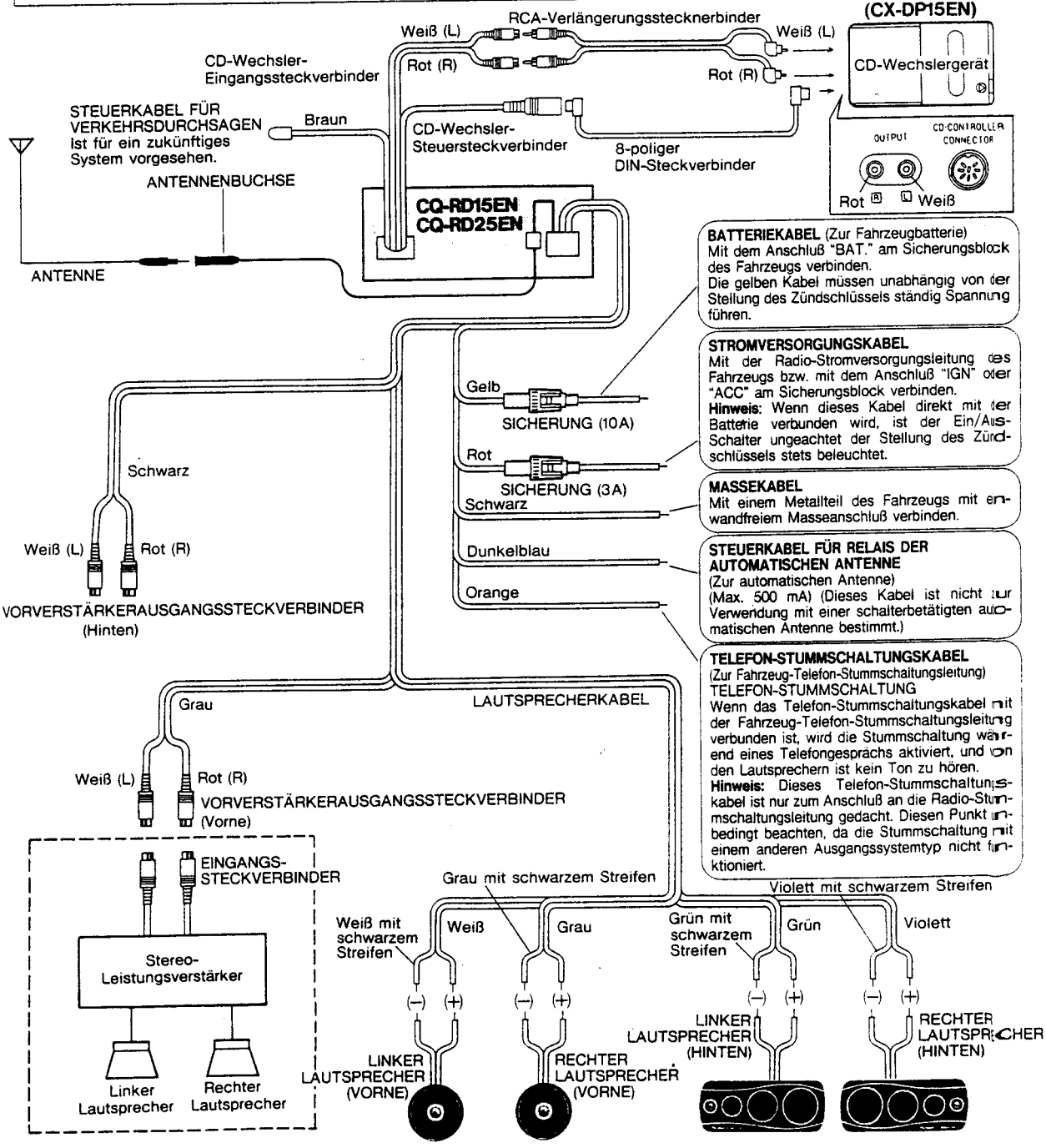
# Elektrischer Anschluß

## In Kombination mit einem CD-Wechsler (CX-DP15EN)

- Dieses Gerät kann an einen als Sonderzubehör erhältlichen CD-Wechsler (CX-DP15EN) angeschlossen werden.
- Einzelheiten über den Anschluß an einen CD-Wechsler (CX-DP15EN) sind in dessen Bedienungsanleitung angegeben.

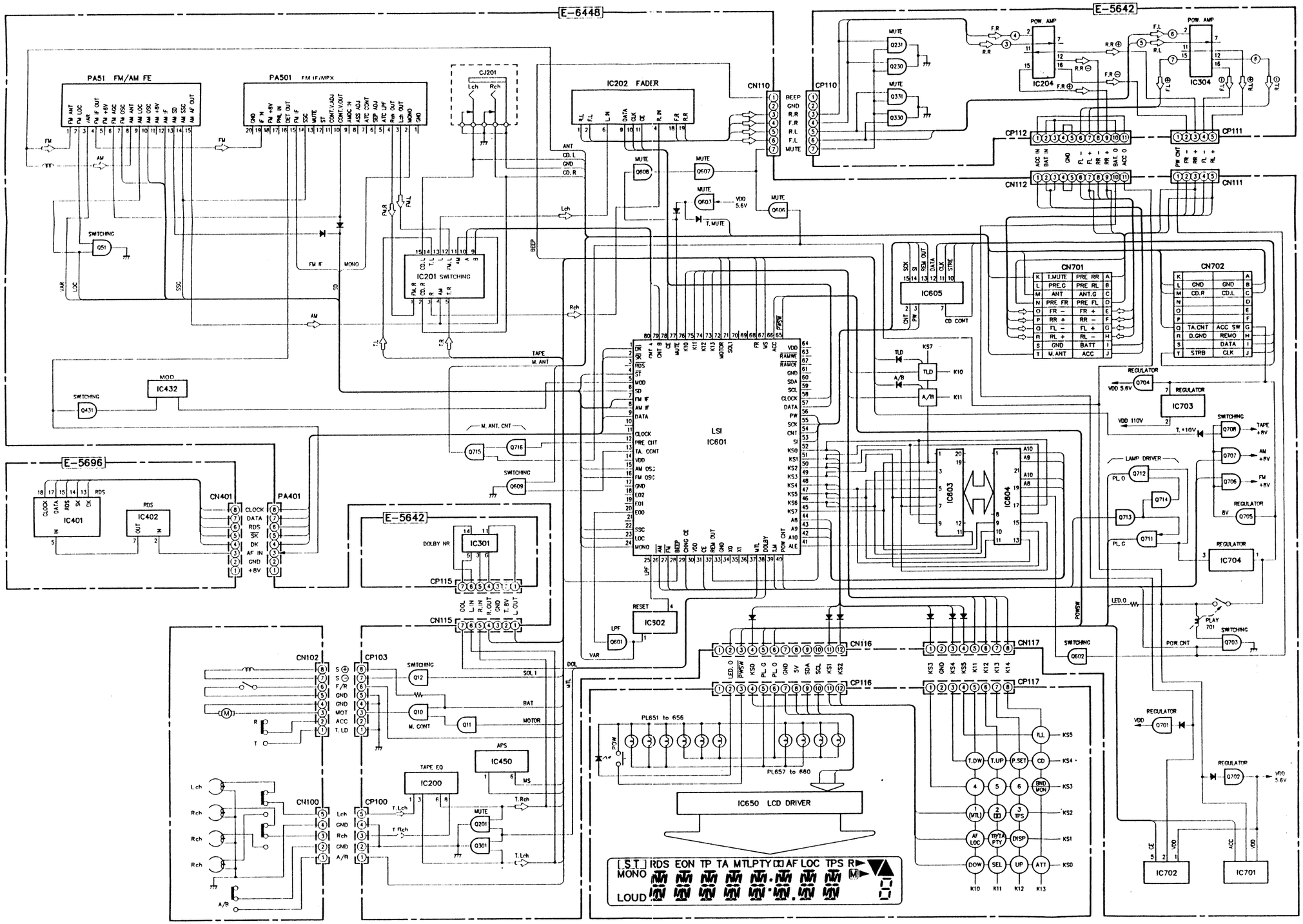
**Achtung:**

- Unbedingt das folgende Anschlußschema einhalten, um eine Beschädigung des Gerätes zu vermeiden.
- Freiliegende Kabel unbedingt isolieren, damit kein Kurzschluß zwischen blanken Leitern und der Fahrzeugkarosserie entstehen kann. Sämtliche Kabel zu Bündeln zusammenfassen und darauf achten, daß die Kabelenden keinen Kontakt mit Metallteilen haben.

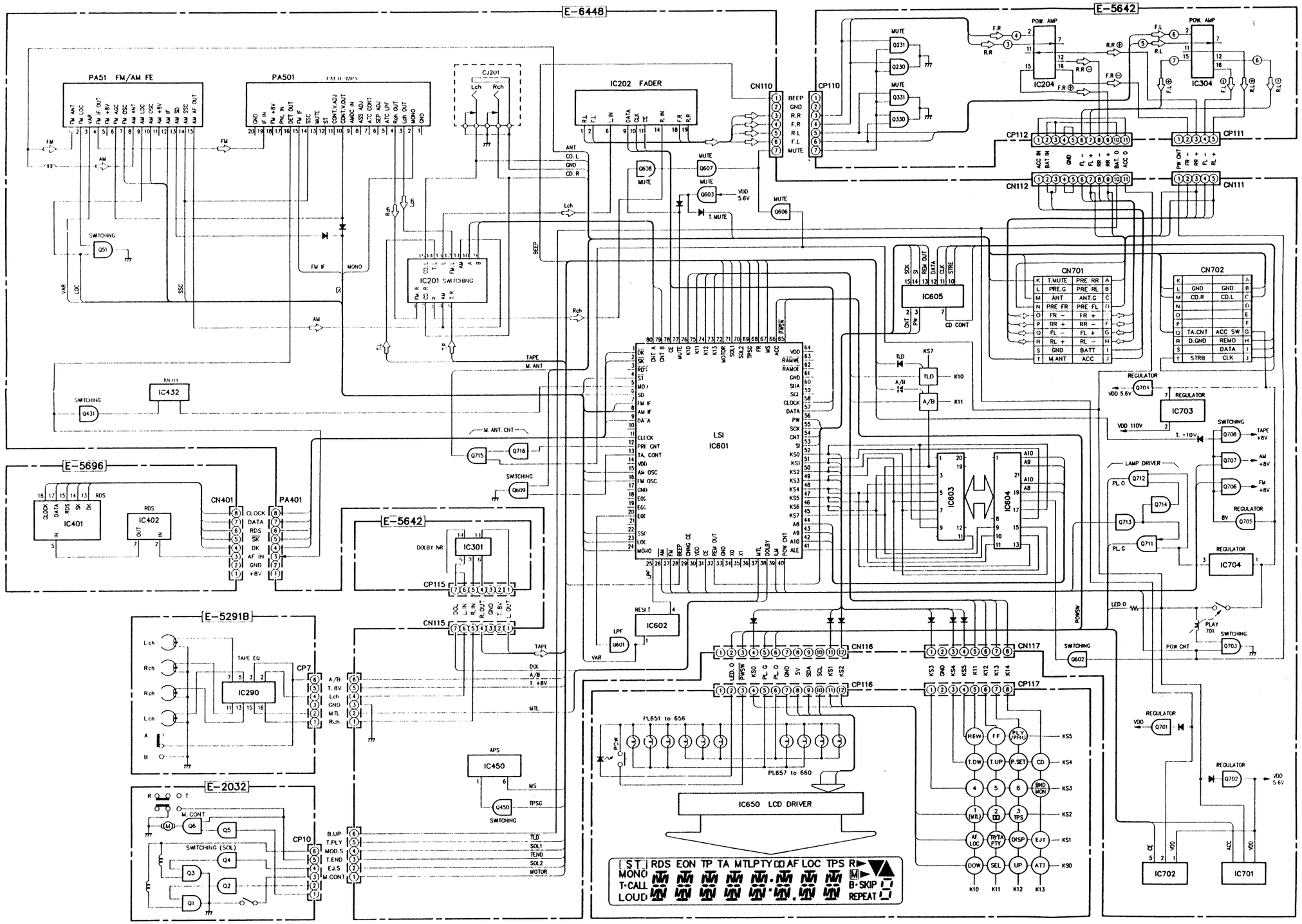


# Block Diagram
# Block Diagramm

## MODEL CQ-RD15EN



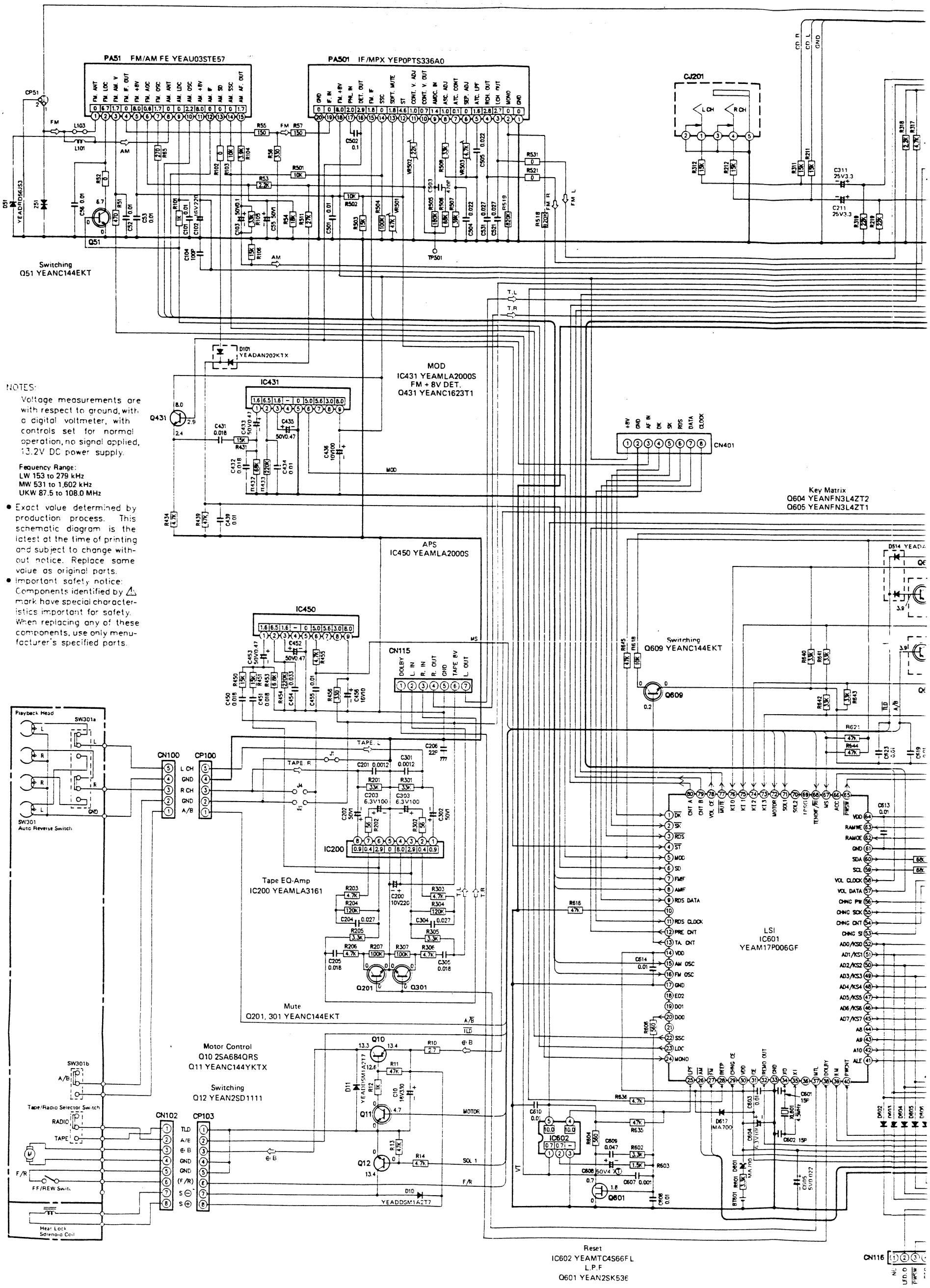
# Block Diagram
# Block Diagramm
## MODEL CQ-RD25EN




**Radio Data System Digital Control Tuner /Cassette Player**
**Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler**

# Schematic Diagram (Main Block)
# Schematisches Diagramm (Hauptblock)

MODEL CQ-RD15EN

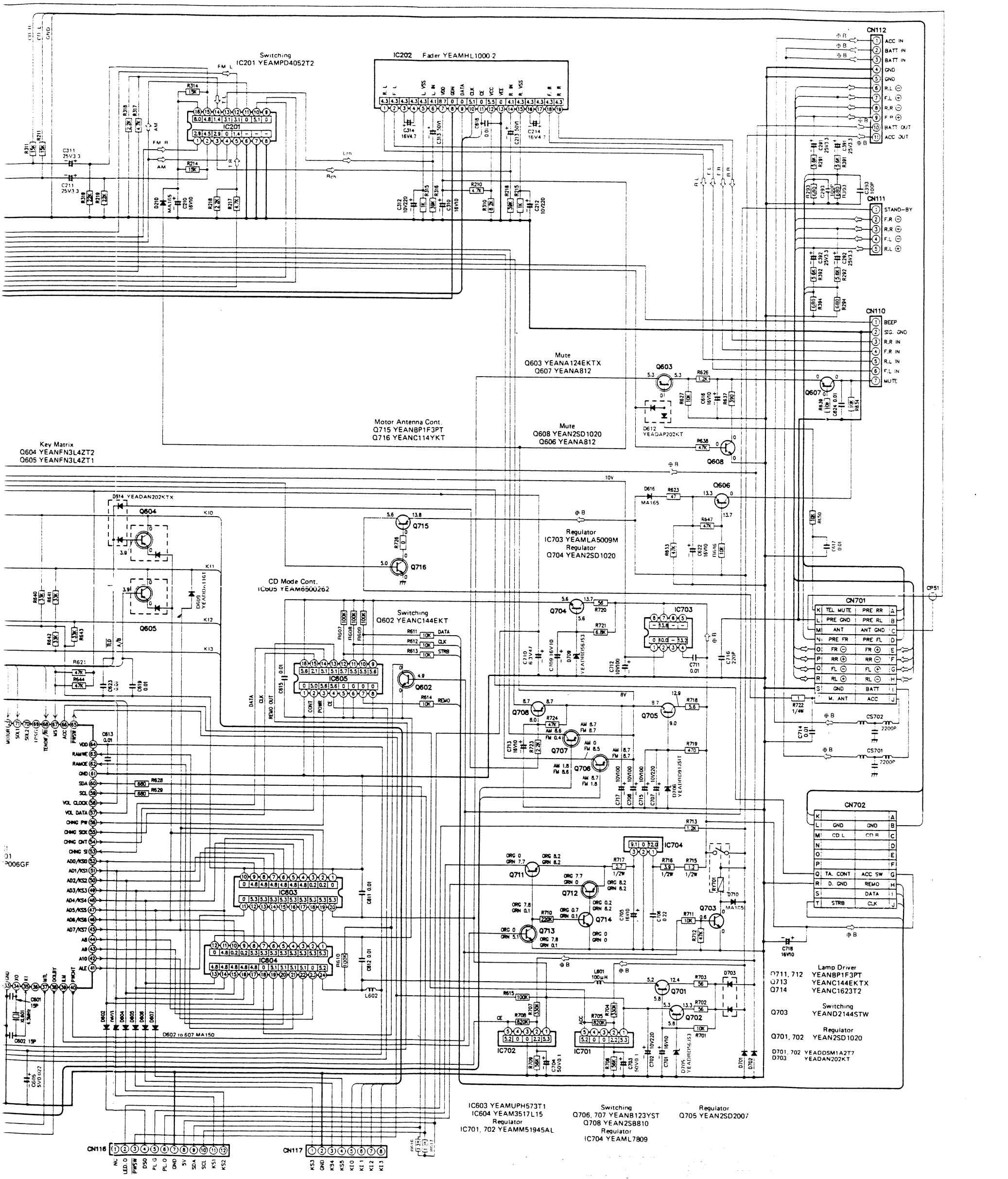



NOTES:

Voltage measurements are with respect to ground, with a digital voltmeter, with controls set for normal operation, no signal applied, 13.2V DC power supply.

Fequency Range:
LW 153 to 279 kHz
MW 531 to 1,602 kHz
UKW 87.5 to 108.0 MHz

- Exact value determined by production process. This schematic diagram is the latest at the time of printing and subject to change without notice. Replace same value as original parts.
- Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

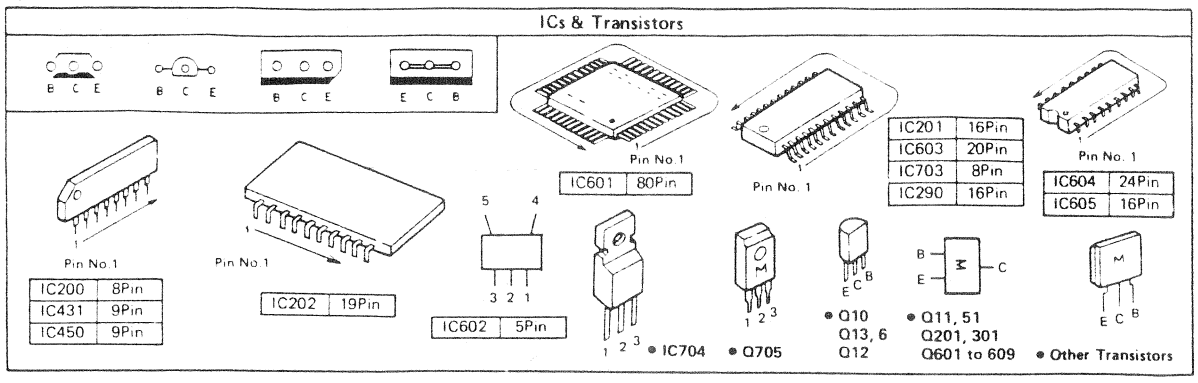



# Radio Data System Digital Control Tuner /Cassette Player
# Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

# Wiring Diagram (Main Block)
# Diagramm für Verkabelung (Hauptblock)

MODEL

## ICs & Transistors




| | |
|---|---|
| IC200 | 8Pin |
| IC431 | 9Pin |
| IC450 | 9Pin |

| | |
|---|---|
| IC202 | 19Pin |

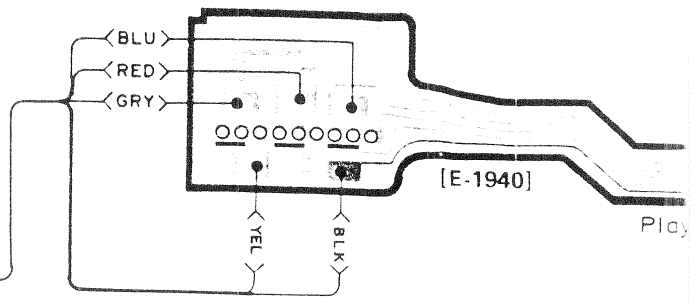
| | |
|---|---|
| IC602 | 5Pin |

| | |
|---|---|
| IC601 | 80Pin |

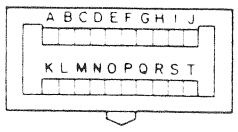
| | |
|---|---|
| IC201 | 16Pin |
| IC603 | 20Pin |
| IC703 | 8Pin |
| IC290 | 16Pin |

| | |
|---|---|
| IC604 | 24Pin |
| IC605 | 16Pin |

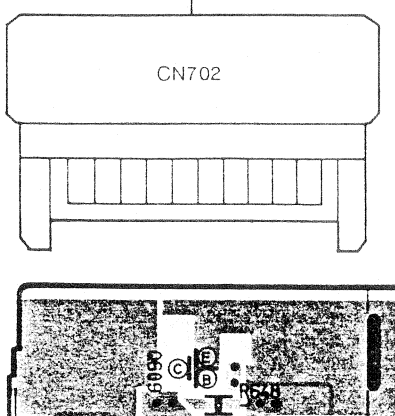
• IC704 • Q705 • Q10, Q13, 6, Q12 • Q11, 51, Q201, 301, Q601 to 609 • Other Transistors




### CN702 20P Connector (Female)




A: Not Used
B: CD Lch Input (–)
C: CD Lch Input (+)
D,E,F: Not Used
G: Acc Switch
H: REMOTE
I: DATA
J: CLK
K: Not Used
L: CD Rch Input (–)
M: CD Rch Input (+)
N,O,P: Not Used
Q: Trafic Announcement Cont.
R: Ground
S: Not Used
T: STR B




| Q609 | |
|---|---|
| B | 0.2V |
| C | 0V |
| E | 0.2V |

| Q201, 301 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0V |

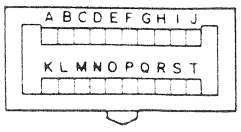
| IC290 | | | |
|---|---|---|---|
| 1 | 8.0V | 9 | 3.1V |
| 2 | 3.2V | 10 | 0V |
| 3 | 4.0V | 11 | 3.1V |
| 4 | 3.2V | 12 | 3.1V |
| 5 | 3.1V | 13 | 3.1V |
| 6 | 3.1V | 14 | 3.2V |
| 7 | 3.1V | 15 | 3.2V |
| 8 | 0V | 16 | 3.2V |

| IC201 | | | |
|---|---|---|---|
| 1 | 2.9V | 9 | 0V |
| 2 | 4.5V | 10 | 5.1V |
| 3 | 2.9V | 11 | 0V |
| 4 | 0V | 12 | 3.1V |
| 5 | 1.4V | 13 | 3.1V |
| 6 | 0V | 14 | 1.4V |
| 7 | 0V | 15 | 4.8V |
| 8 | 0V | 16 | 8.0V |

| Q715 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 13.8V |

| Q716 | |
|---|---|
| B | 5.0V |
| C | 0V |
| E | 0V |

### CN701 20P Connector (Female)




A: Pre Out RR
B: Pre Out RL
C: Antenna Ground
D: Pre Out FL
E: Speaker FR (+)
F: Speaker RR (–)
G: Speaker FL (+)
H: Speaker RL (–)
I: Battery
J: Acc
K: Telephone Mute
L: Pre Ground
M: Antenna
N: Pre Out FR
O: Speaker FR (–)
P: Speaker RR (+)
Q: Speaker FL (–)
R: Speaker RL (+)
S: Ground
T: Motor Antenna

| PA51 | |
|---|---|
| 1 | 0V |
| 2 | 6.7V |
| 3 | 1.7V |
| 4 | 0V |
| 5 | 8.0V |
| 6 | 0.6V |
| 7 | 1.7V |
| 8 | 0V |
| 9 | 0V |
| 10 | 2.2V |
| 11 | 8.0V |
| 12 | 0V |
| 13 | 0V |
| 14 | 0V |
| 15 | 1.7V |

| PA501 | |
|---|---|
| 1 | 0V |
| 2 | 0V |
| 3 | 8.0V |
| 4 | 2.0V |
| 5 | 2.9V |
| 6 | 1.8V |
| 7 | 0V |
| 8 | 1.8V |
| 9 | 4.6V |
| 10 | 1.0V |
| 11 | 0.7V |
| 12 | 1.4V |
| 13 | 1.0V |
| 14 | 0.1V |
| 15 | 0V |
| 16 | 1.6V |
| 17 | 2.8V |
| 18 | 2.7V |
| 19 | 0V |
| 20 | 0V |

| IC200 | |
|---|---|
| 1 | 0.9V |
| 2 | 0.4V |
| 3 | 2.9V |
| 4 | 8.0V |
| 5 | 0V |
| 6 | 2.9V |
| 7 | 0.4V |
| 8 | 0.7V |

| IC431 | |
|---|---|
| 1 | 1.6V |
| 2 | 6.5V |
| 3 | 1.6V |
| 4 | — |
| 5 | 0 |
| 6 | 5.0V |
| 7 | 5.6V |
| 8 | 3.0V |
| 9 | 8.0V |

| Q51 | |
|---|---|
| B | 0V |
| C | 6.7V |
| E | 0V |

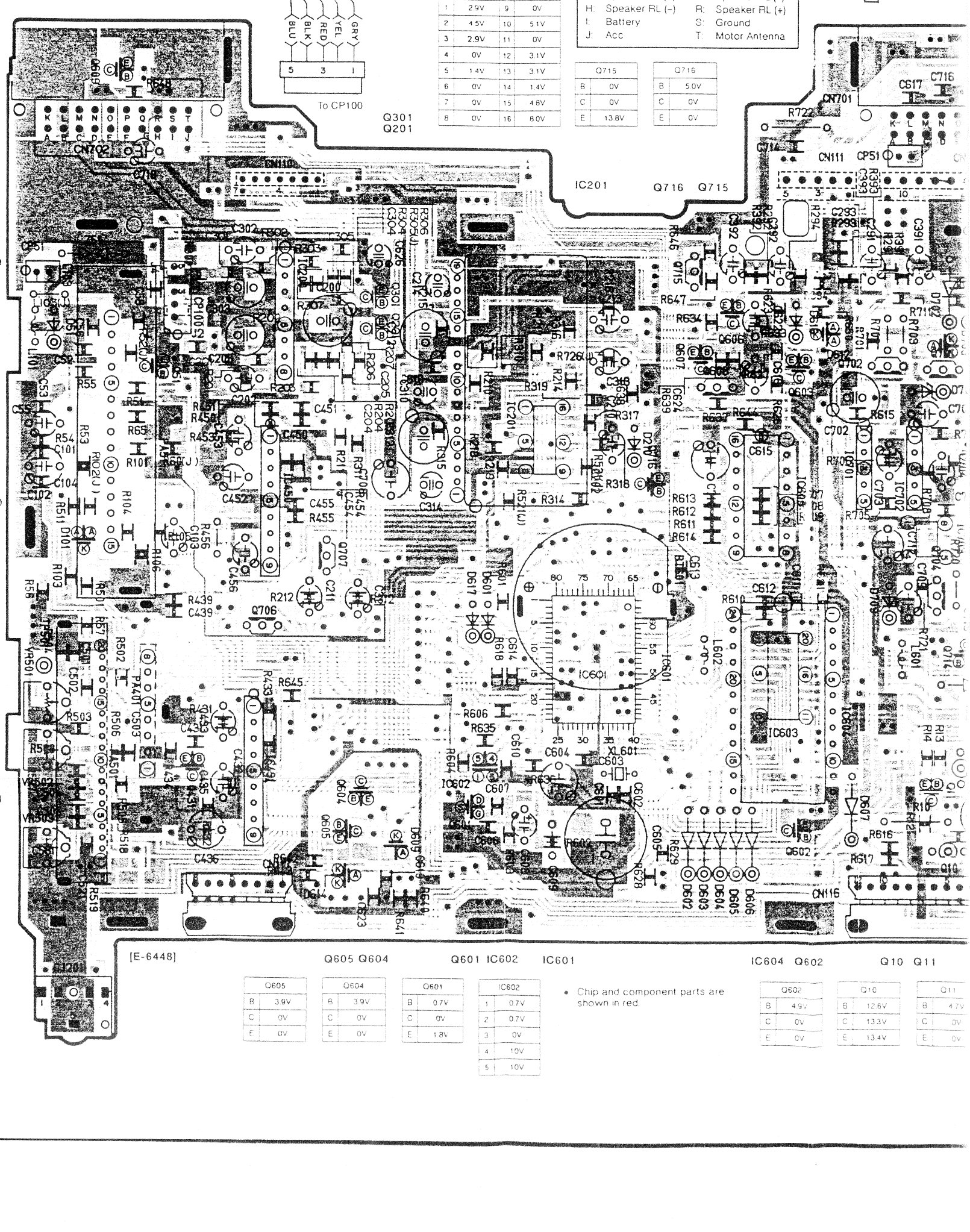
| Q431 | |
|---|---|
| B | 3.0V |
| C | 8.0V |
| E | 2.4V |

| IC450 | |
|---|---|
| 1 | 1.6V |
| 2 | 6.4V |
| 3 | 1.6V |
| 4 | — |
| 5 | 0V |
| 6 | 4.6V |
| 7 | — |
| 8 | — |
| 9 | 6.9V |

| Q706 | | |
|---|---|---|
| B | AM | 8.7V |
| | FM | 1.8V |
| C | AM | 0V |
| | FM | 8.5V |
| E | | 8.7V |

| Q707 | | |
|---|---|---|
| B | AM | 1.8V |
| | FM | 8.6V |
| C | AM | 8.6V |
| | FM | 0.4V |
| E | | 8.7V |

| IC202 | | | |
|---|---|---|---|
| 1 | 4.3V | 11 | 0V |
| 2 | 4.3V | 12 | 5.5V |
| 3 | 4.3V | 13 | 0V |
| 4 | 4.3V | 14 | 4.1V |
| 5 | 4.3V | 15 | 4.3V |
| 6 | 4.1V | 16 | 4.3V |
| 7 | 10.0V | 17 | 4.3V |
| 8 | 0V | 18 | 4.3V |
| 9 | 0V | 19 | 4.3V |
| 10 | 5.1V | | |




Q605 Q604 Q601 IC602 IC601 IC604 Q602 Q10 Q11

| Q605 | |
|---|---|
| B | 3.9V |
| C | 0V |
| E | 0V |

| Q604 | |
|---|---|
| B | 3.9V |
| C | 0V |
| E | 0V |

| Q601 | |
|---|---|
| B | 0.7V |
| C | 0V |
| E | 1.8V |

| IC602 | |
|---|---|
| 1 | 0.7V |
| 2 | 0.7V |
| 3 | 0V |
| 4 | 10V |
| 5 | 10V |

• Chip and component parts are shown in red.

| Q602 | |
|---|---|
| B | 4.9V |
| C | 0V |
| E | 0V |

| Q10 | |
|---|---|
| B | 12.6V |
| C | 13.3V |
| E | 13.4V |

| Q11 | |
|---|---|
| B | 4.7V |
| C | 0V |
| E | 0V |

[E-1940]

Play Back Head

CD Changer Control Connector

Traffic Announcement Control Lead

Black / Red

Black / White

CD Changer Input Connector

CN701

Green w/Black Stripe (-) Left Speaker
(+) (Rear)

Green

Violet w/Black Stripe (-) Right Speaker
(+) (Rear)

Violet

White w/Black Stripe (-) Left Speaker
(+) (Front)

White

Gray w/Black Stripe (-) Right Speaker
(+) (Front)

Gray

Ground

Black / Yellow — 10A — Battery Lead

Red — 3A — Power Lead

Antenna Reseptacle

Red / Black — Preout RR
White / Black — Preout RL
Gray / White — Preout FL
Gray / Red — Preout FR
Pre-Amp Connector

Telephone Mute Lead

Dark Blue / Orange — Motor Antenna Relay Control Lead

| Q603 | |
|---|---|
| B | 0V |
| C | 5.3V |
| E | 5.3V |

| Q606 | |
|---|---|
| B | 13.7V |
| C | 6V |
| E | 13.3V |

| Q607 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0V |

| Q608 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0V |

| Q701 | |
|---|---|
| B | 5.8V |
| C | 13.4V |
| E | 5.2V |

| Q702 | |
|---|---|
| B | 5.8V |
| C | 13.3V |
| E | 5.3V |

| Q703 | |
|---|---|
| B | 0.6V |
| C | 0V |
| E | 0V |

| Q704 | |
|---|---|
| B | 5.6V |
| C | 13.7V |
| E | 5.6V |

| Q705 | |
|---|---|
| B | 9.1V |
| C | 12.9V |
| E | 8.9V |

| Q708 | |
|---|---|
| B | 8.0V |
| C | 8.7V |
| E | 8.7V |

| IC701 | | | |
|---|---|---|---|
| 1 | 5.3V | | |
| 2 | 2.2V | | |
| 3 | 0V | | |
| 4 | 0V | | |
| 5 | 5.2V | | |

| IC702 | | | |
|---|---|---|---|
| 1 | 5.3V | | |
| 2 | 2.2V | | |
| 3 | 0V | | |
| 4 | — | | |
| 5 | 5.2V | | |

| IC704 | | | |
|---|---|---|---|
| 1 | 12.0V | | |
| 2 | 0V | | |
| 3 | 9.1V | | |

| IC703 | | | |
|---|---|---|---|
| 1 | 0V | 5 | — |
| 2 | 10V | 6 | — |
| 3 | — | 7 | 13.8V |
| 4 | 13.2V | 8 | — |

| Q711 | | |
|---|---|---|
| B | O | 7.8V |
| | G | 0.1V |
| C | O | 0V |
| | G | 7.7V |
| E | | 8.2V |

| Q712 | | |
|---|---|---|
| B | O | 0.2V |
| | G | 8.2V |
| C | O | 7.7V |
| | G | 0V |
| E | | 8.2V |

| IC605 | |
|---|---|
| 1 | 0V |
| 2 | 5.0V |
| 3 | 5.6V |
| 4 | 5.6V |
| 5 | 0V |
| 6 | 0V |
| 7 | 0V |
| 8 | 0V |
| 9 | 5.6V |
| 10 | 5.5V |
| 11 | 5.5V |
| 12 | 5.7V |
| 13 | 5.1V |
| 14 | 0V |
| 15 | 2.1V |
| 16 | 5.8V |

FF/REW S'W

T R

1 2 3 4 5 6 7 8

[E-2290]

PNK

PNK/VLT

BRN

PNK/VLT

PNK

BLU/RED

RED

Head Lock Solenoid Coil

DC Motor

[E-2032] SW5 AUTO METAL SWITCH

| Q1 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

| Q2 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

| Q3 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

| Q4 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

| Q5 | |
|---|---|
| B | 5.0V |
| C | 0V |
| E | 0V |

Q603
Q606
Q607

Q703

Q701
Q702
Q608

IC704

IC605
Q705

IC703

Q704
Q708
Q712
Q711

IC603
Q714
Q713

Q602 Q10 Q11 Q12

| Q10 | |
|---|---|
| B | 12.6V |
| C | 13.3V |
| E | 13.4V |

| Q11 | |
|---|---|
| B | 4.7V |
| C | 0V |
| E | 0V |

| Q12 | |
|---|---|
| B | 0 |
| C | 13.4V |
| E | 0 |

BRN

| IC603 | | | |
|---|---|---|---|
| 1 | 0V | 11 | 0V |
| 2 | 0.2V | 12 | 5.3V |
| 3 | 0.2V | 13 | 5.3V |
| 4 | 4.8V | 14 | 5.3V |
| 5 | 4.8V | 15 | 5.3V |
| 6 | 4.8V | 16 | 5.3V |
| 7 | 4.8V | 17 | 5.3V |
| 8 | 4.8V | 18 | 5.3V |
| 9 | 4.8V | 19 | 5.3V |
| 10 | 0V | 20 | 5.3V |

| IC604 | | | |
|---|---|---|---|
| 1 | 5.3V | 13 | 4.8V |
| 2 | 5.3V | 14 | 4.8V |
| 3 | 5.3V | 15 | 4.8V |
| 4 | 5.3V | 16 | 4.8V |
| 5 | 5.3V | 17 | 4.8V |
| 6 | 5.3V | 18 | 0V |
| 7 | 5.3V | 19 | 5.1V |
| 8 | 5.3V | 20 | 5.1V |
| 9 | 0.2V | 21 | 5.1V |
| 10 | 0.2V | 22 | 5.1V |
| 11 | 4.8V | 23 | 0V |
| 12 | 0V | 24 | 5.3V |

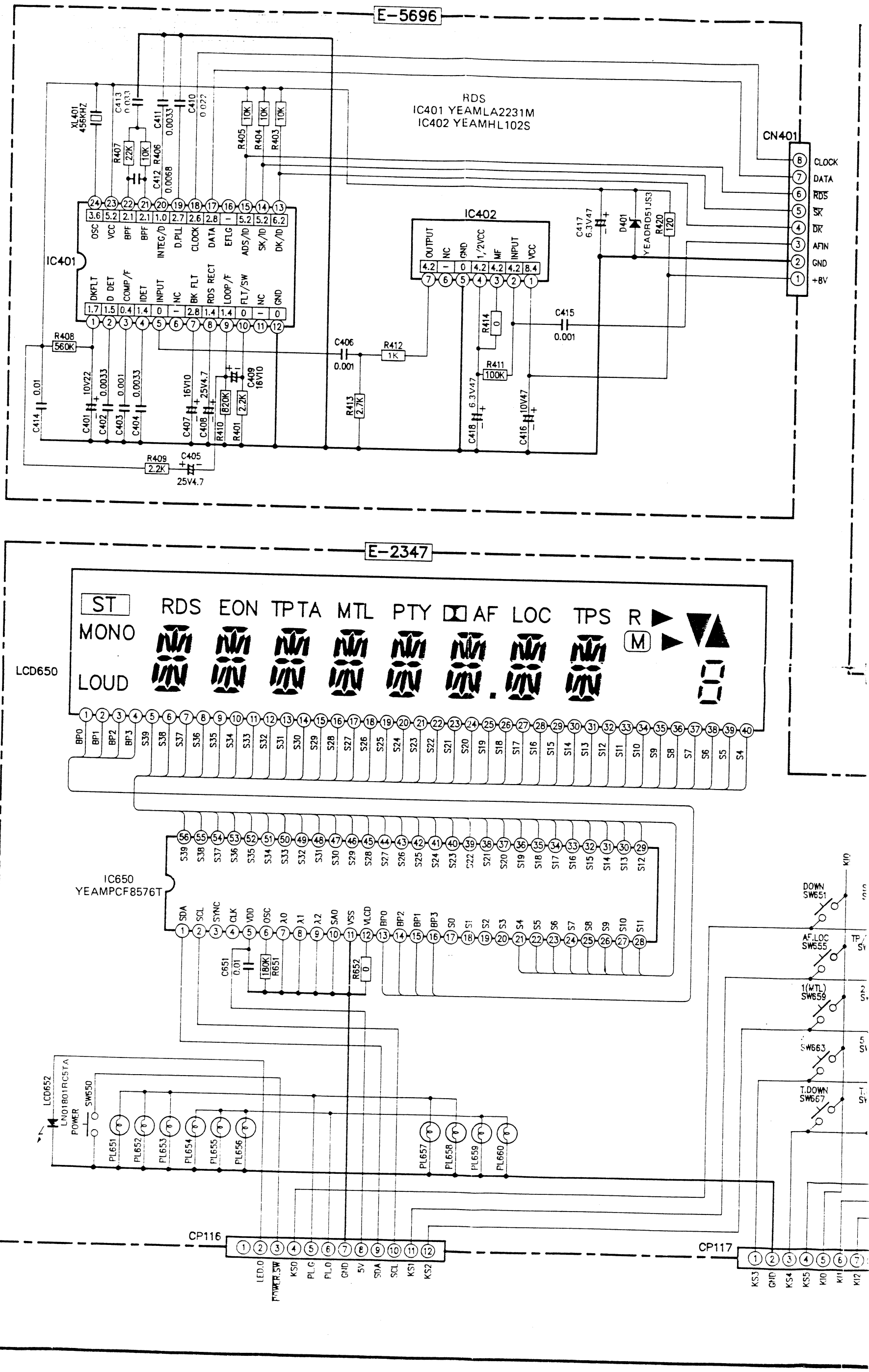
| Q713 | | |
|---|---|---|
| B | O | 0V |
| | G | 5.1V |
| C | O | 7.8V |
| | G | 0.1V |
| E | | 0V |

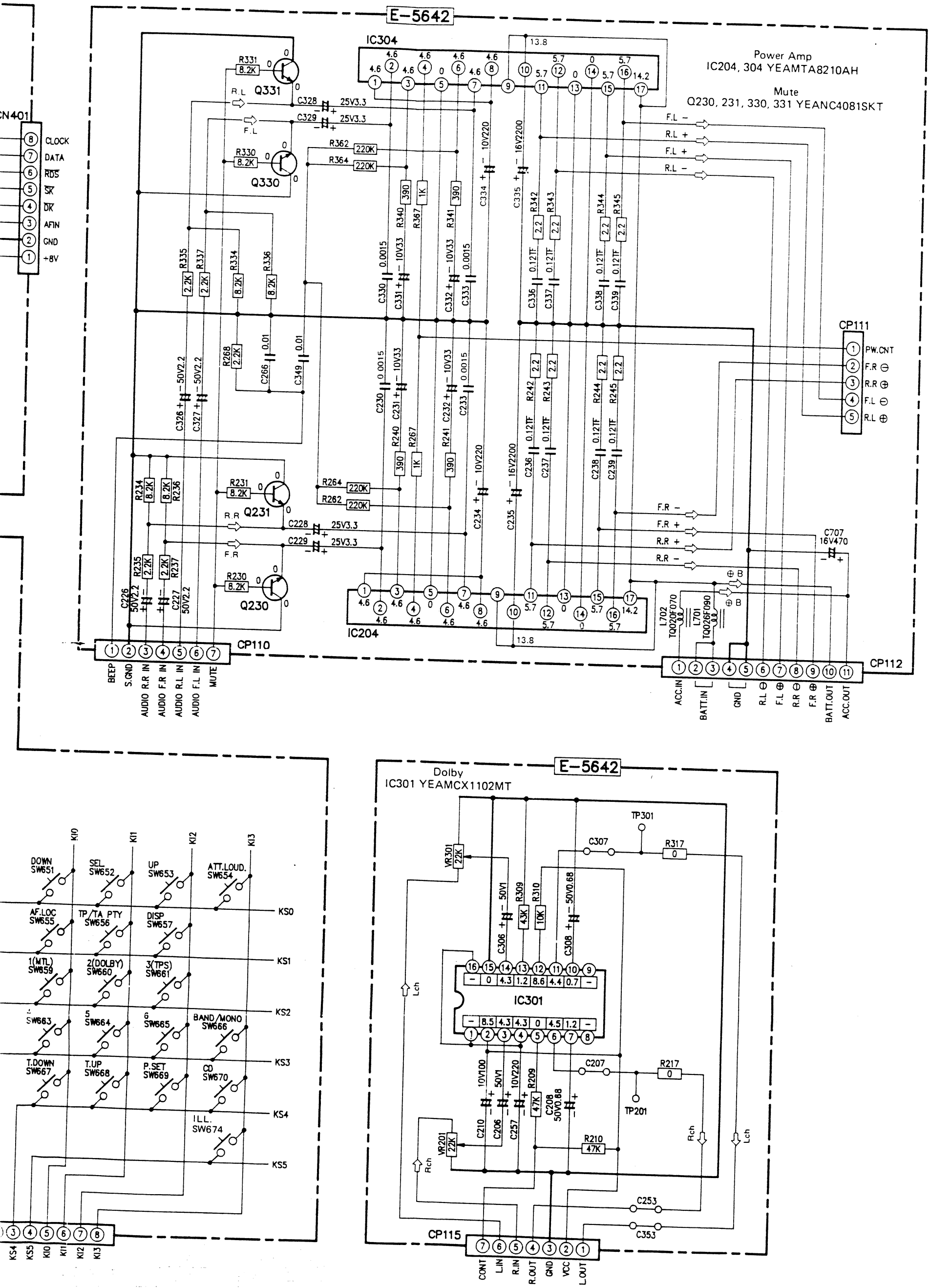
| Q714 | | |
|---|---|---|
| B | O | 0.7V |
| | G | 0.1V |
| C | O | 0.2V |
| | G | 8.2V |
| E | | 0V |

# Radio Data System Digital Control Tuner /Cassette Player
# Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

# Schematic Diagram (Dolby, Amp, Display Block)
# Schematisches Diagramm(Dolby, Verstärker, Anzeigeblock)

MODEL CQ-RD15EN

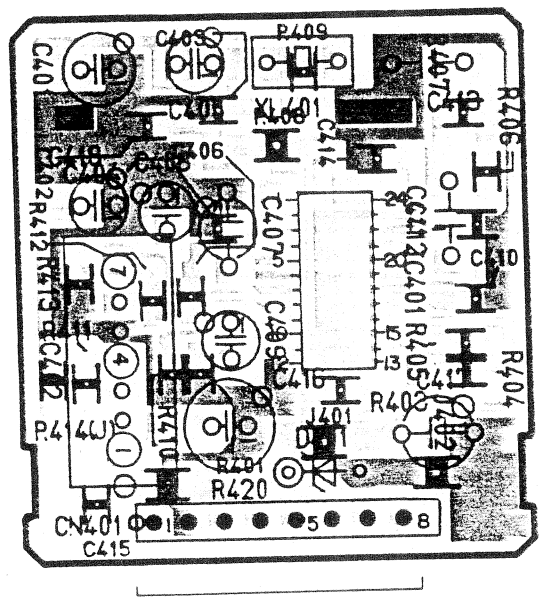



E-5642
IC304
Power Amp
IC204, 304 YEAMTA8210AH
Mute
Q230, 231, 330, 331 YEANC4081SKT
Q331
Q330
Q231
Q230
R331 8.2K
R330 8.2K
R362 220K
R364 220K
R264 220K
R262 220K
C328 25V3.3
C329 25V3.3
C228 25V3.3
C229 25V3.3
R.L
F.L
R.R
F.R
F.L −
R.L +
F.L +
R.L −
F.R −
F.R +
R.R +
R.R −
CP111
PW.CNT
F.R ⊖
R.R ⊕
F.L ⊖
R.L ⊕
C707 16V470
IC204
CP110
BEEP
S.GND
AUDIO R.R IN
AUDIO F.R IN
AUDIO R.L IN
AUDIO F.L IN
MUTE
CP112
ACC.IN
BATT.IN
GND
R.L ⊖
F.L ⊕
R.R ⊖
F.R ⊕
BATT.OUT
ACC.OUT
CN401
CLOCK
DATA
RDS
SK
DK
AFIN
GND
+8V
K10
K11
K12
K13
DOWN SW651
SEL. SW652
UP SW653
ATT.LOUD. SW654
AF.LOC SW655
TP/TA PTY SW656
DISP SW657
1(MTL) SW659
2(DOLBY) SW660
3(TPS) SW661
SW663
5 SW664
6 SW665
BAND/MONO SW666
T.DOWN SW667
T.UP SW668
P.SET SW669
CD SW670
ILL. SW674
KS0
KS1
KS2
KS3
KS4
KS5
E-5642
Dolby
IC301 YEAMCX1102MT
TP301
IC301
TP201
CP115
CONT
LIN
R.IN
R.OUT
GND
VCC
LOUT
Lch
Rch
Radio Data System Digital Control Tuner /Cassette Player
Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

# Wiring Diagram(Dolby, Amp, Display Block)
# Diagramm für Verkabelung(Dolby, Verstärker, Anzeigeblock)

MODEL

[E-5696]



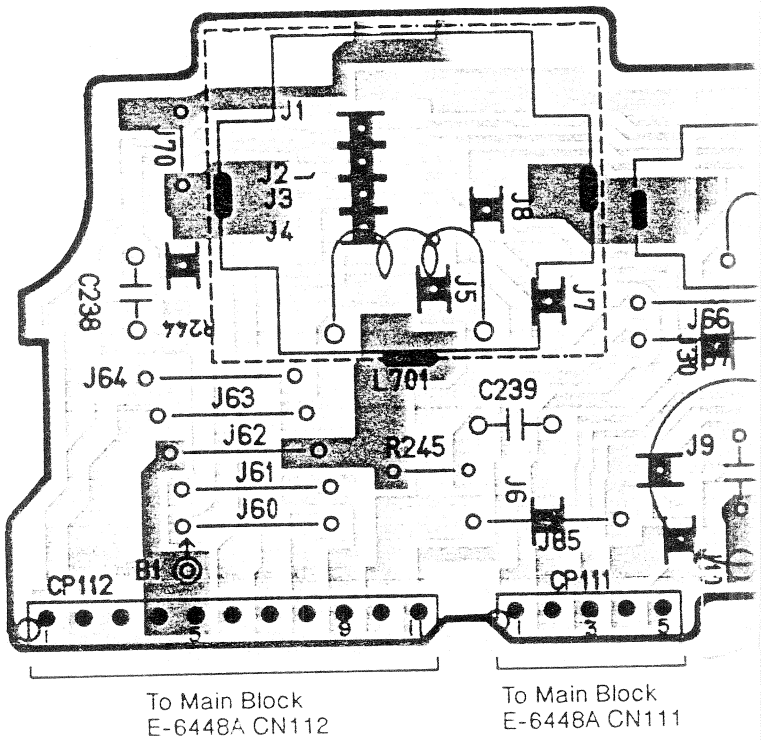

IC401

IC402

| IC402 | |
|---|---|
| 1 | 8.4V |
| 2 | 4.2V |
| 3 | 4.2V |
| 4 | 4.2V |
| 5 | 0V |
| 6 | — |
| 7 | 4.2V |

To Main Block
E-6448A PA401

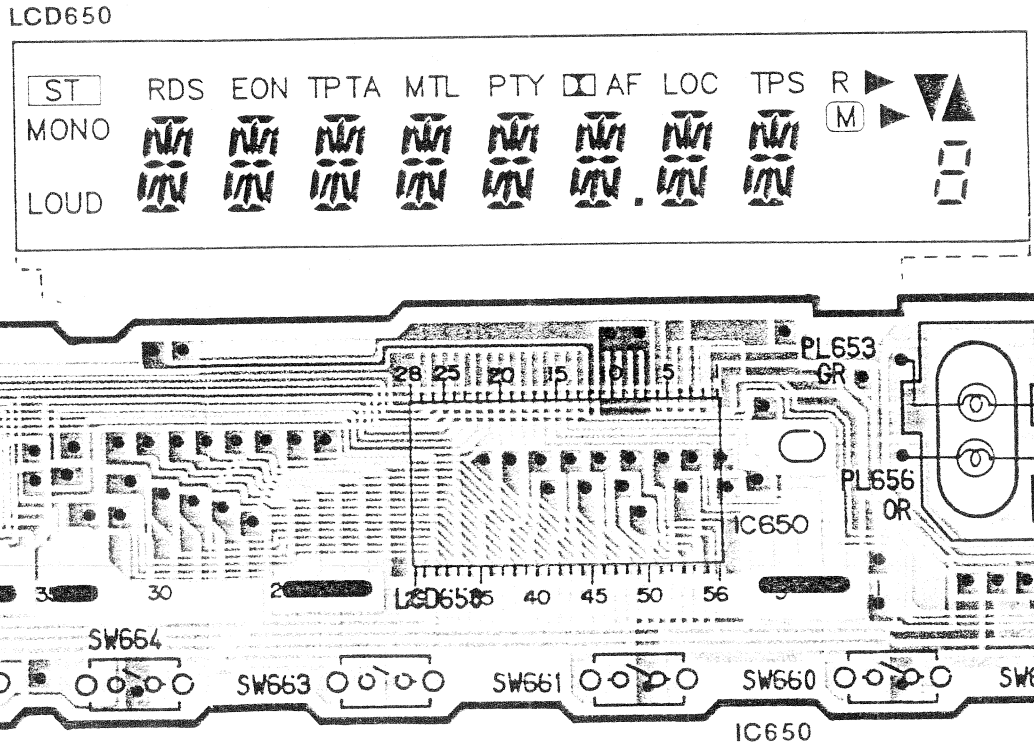
| IC401 | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 3.7V | 7 | 2.8V | 13 | 5.2V | 19 | 2.7V |
| 2 | 1.5V | 8 | 1.4V | 14 | 5.2V | 20 | 1.0V |
| 3 | 0V | 9 | 1.4V | 15 | 5.2V | 21 | 2.1V |
| 4 | 1.4V | 10 | 0V | 16 | — | 22 | 2.1V |
| 5 | 0V | 11 | — | 17 | 2.8V | 23 | 5.2V |
| 6 | — | 12 | 0V | 18 | 2.6V | 24 | 2.6V |




To Main Block
E-6448A CN112

To Main Block
E-6448A CN111

LCD650




To Main Block
E-6448A CN117

PL651 to 660 Pilot Lamp

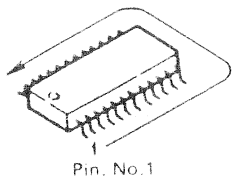
SW650 Power Switch
SW651 AUDIO Down Switch
SW652 SELECT Switch
SW653 AUDIO Up Switch
SW654 ATT. LOUD Switch
SW655 AF, LOC Switch
SW656 TP/TA PTY Switch
SW657 DISPLAY Switch

SW659 Preset "1"/MTL Switch
SW660 Preset "2"/Dolby Switch
SW661 Preset "3"/TPS Switch
SW663 Preset "4"/T-CALL Switch
SW664 Preset "5"/B-SKIP Switch
SW665 Preset "6"/REP Switch
SW666 BAND/MONO Select Switch

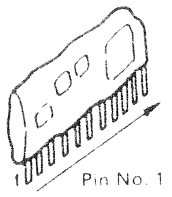
SW667 Tune Dow
SW668 Tune Up S
SW669 P.SET Sw
SW670 CD Mode
SW674 Illuminatio

| IC204, 304 | | | |
|---|---|---|---|
| 1 | 4.6V | 10 | 14.2V |
| 2 | 4.6V | 11 | 5.7V |
| 3 | 4.6V | 12 | 5.7V |
| 4 | 4.6V | 13 | 0V |
| 5 | 0V | 14 | 0V |
| 6 | 4.6V | 15 | 5.7V |
| 7 | 4.6V | 16 | 5.7V |
| 8 | 4.6V | 17 | 14.2V |
| 9 | 14.2V | | |

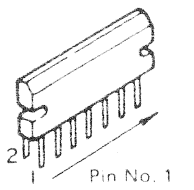
## ICs & Transistors




| IC301 | 16Pin |
|---|---|
| IC401 | 24Pin |
| IC650 | 56Pin |

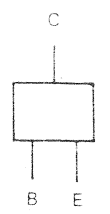



| IC401 | 7Pin |
|---|---|



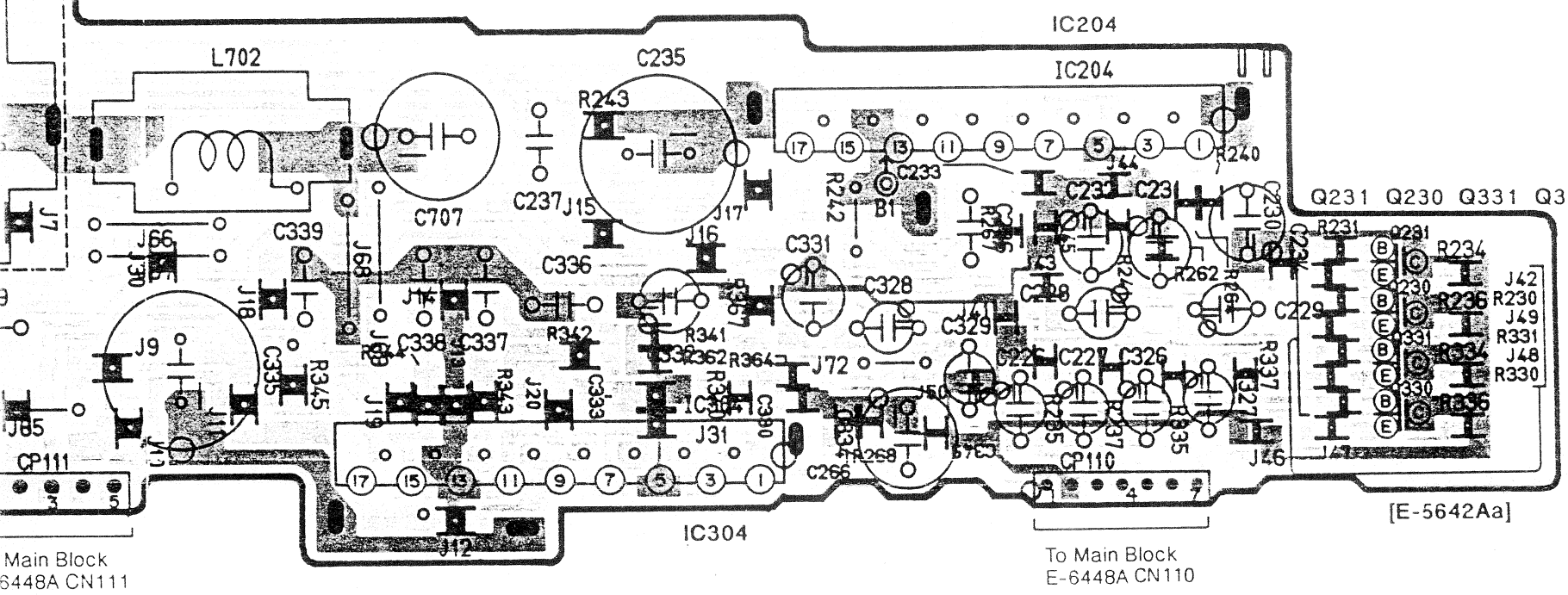

| IC204 | 17Pin |
|---|---|
| IC304 | |

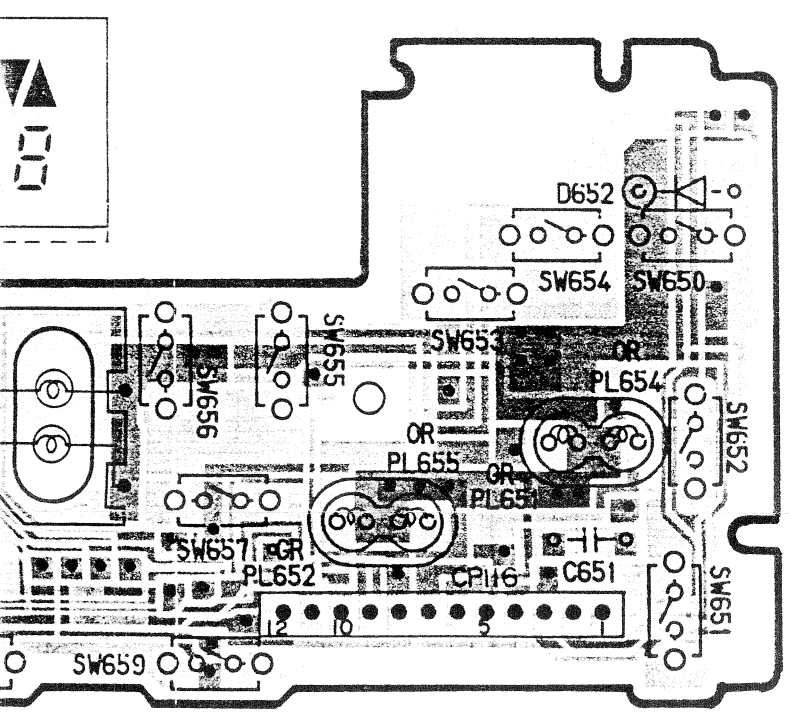
Transistor



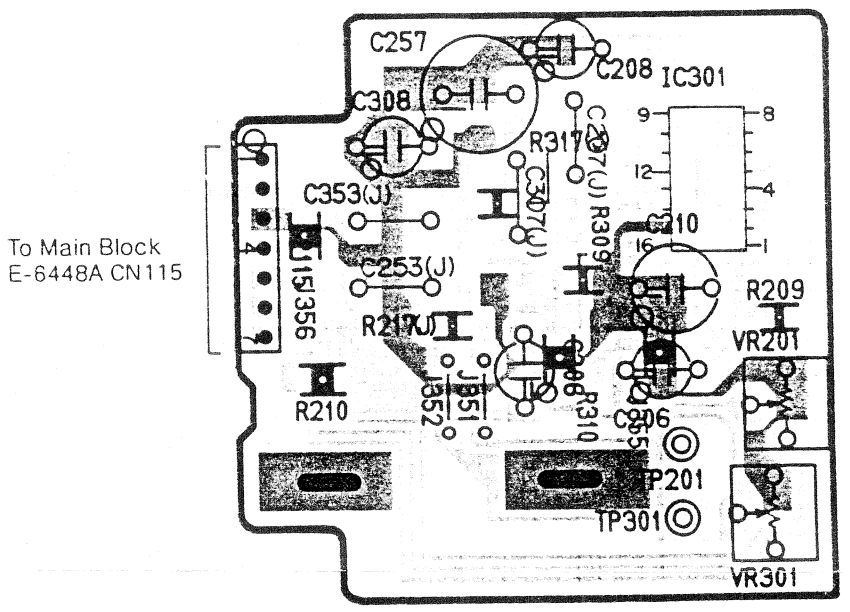

| Q230, 231 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0 |

| Q330, 331 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0 |



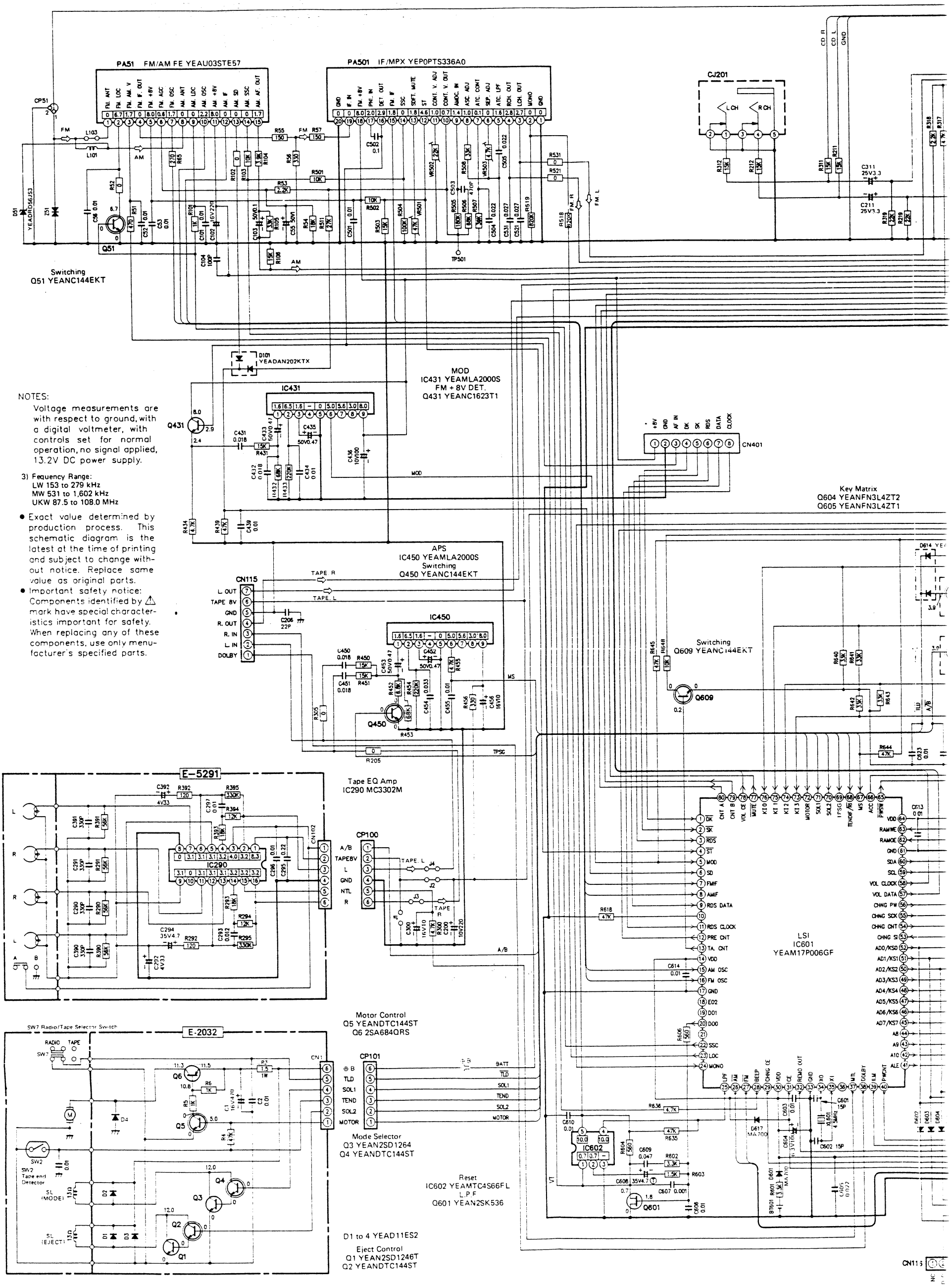

SW667 Tune Down Switch
SW668 Tune Up Switch
SW669 P.SET Switch
SW670 CD Mode Switch
SW674 Illumination Switch




| IC301 | | | |
|---|---|---|---|
| 1 | — | 9 | — |
| 2 | 8.5V | 10 | 0.7V |
| 3 | 4.3V | 11 | 4.4V |
| 4 | 1.3V | 12 | 8.6V |
| 5 | 0V | 13 | 1.2V |
| 6 | 4.5V | 14 | 4.7V |
| 7 | 1.2V | 15 | 0V |
| 8 | — | 16 | — |

# Schematic Diagram (Main Block)
# Schematisches Diagramm (Hauptblock)

MODEL CQ-RD25EN

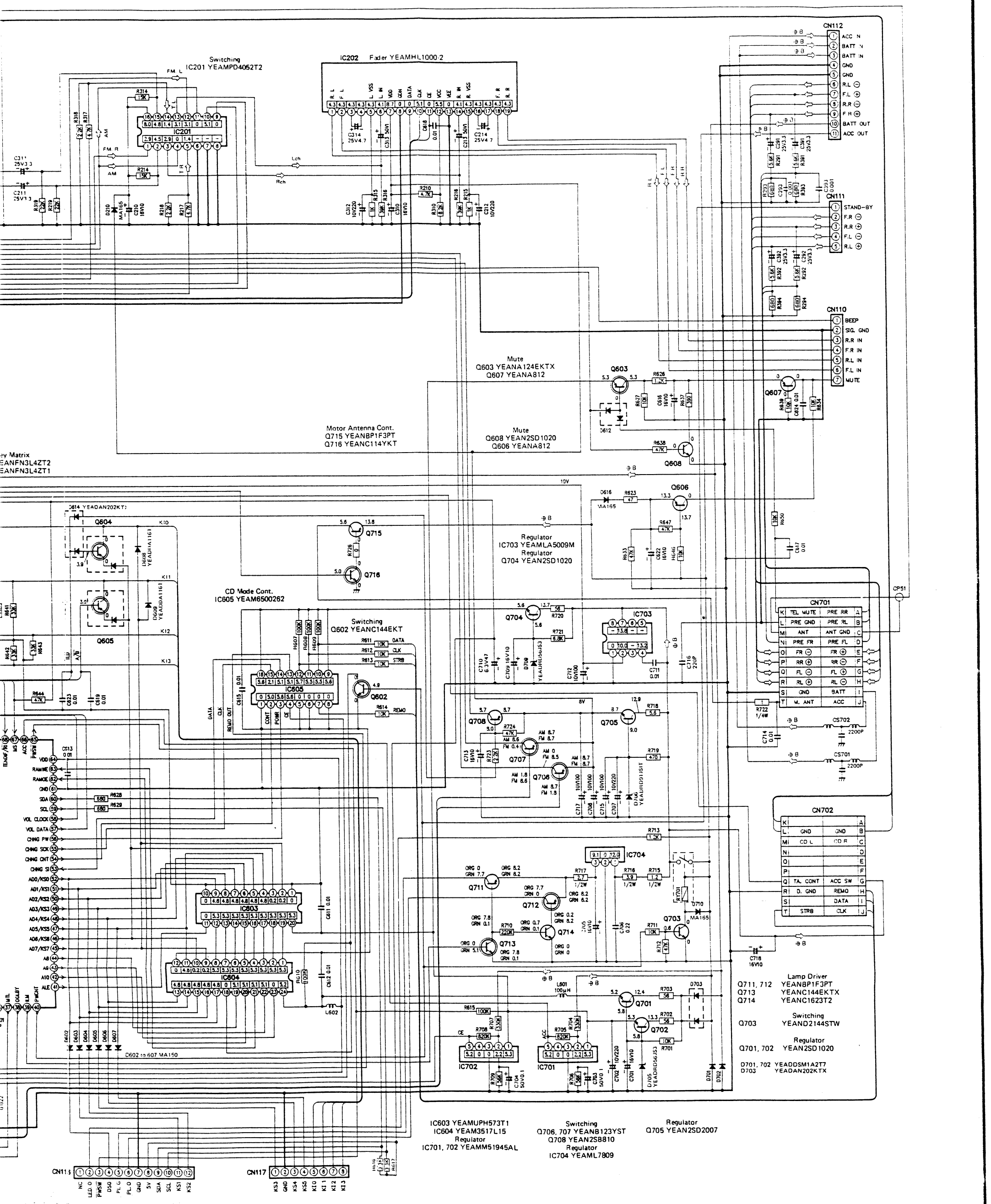



NOTES:

Voltage measurements are with respect to ground, with a digital voltmeter, with controls set for normal operation, no signal applied, 13.2V DC power supply.

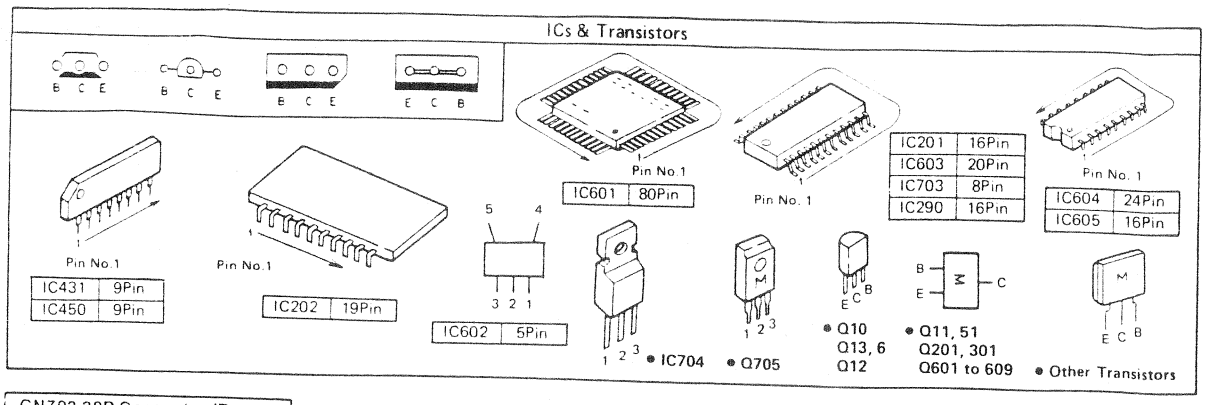
3) Fequency Range:
LW 153 to 279 kHz
MW 531 to 1,602 kHz
UKW 87.5 to 108.0 MHz

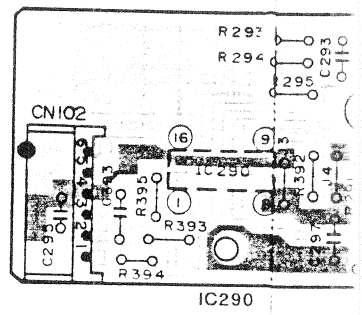
- Exact value determined by production process. This schematic diagram is the latest at the time of printing and subject to change without notice. Replace same value as original parts.
- Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only menufacturer's specified parts.



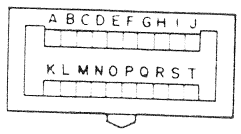

# Radio Data System Digital Control Tuner /Cassette Player
# Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

# Wiring Diagram (Main Block)
# Diagramm für Verkabelung (Hauptblock)




CN702 20P Connector (Female)




- A: Not Used
- B: CD Lch Input (–)
- C: CD Lch Input (+)
- D,E,F: Not Used
- G: Acc Switch
- H: REMOTE
- I: DATA
- J: CLK
- K: Not Used
- L: CD Rch Input (–)
- M: CD Rch Input (+)
- N,O,P: Not Used
- Q: Trafic Announcement Cont.
- R: Ground
- S: Not Used
- T: STR B

CN702

WHT WHT WHT WHT BRN
6 3 1
To CP100

| Q609 | |
|---|---|
| B | 0.2V |
| C | 0V |
| E | 0.2V |

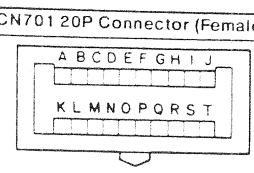
| IC290 | | | |
|---|---|---|---|
| 1 | 8.0V | 9 | 3.1V |
| 2 | 3.2V | 10 | 0V |
| 3 | 4.0V | 11 | 3.1V |
| 4 | 3.2V | 12 | 3.1V |
| 5 | 3.1V | 13 | 3.1V |
| 6 | 3.1V | 14 | 3.2V |
| 7 | 3.1V | 15 | 3.2V |
| 8 | 0V | 16 | 3.2V |

| IC201 | | | |
|---|---|---|---|
| 1 | 2.9V | 9 | 0V |
| 2 | 4.5V | 10 | 5.1V |
| 3 | 2.9V | 11 | 0V |
| 4 | 0V | 12 | 3.1V |
| 5 | 1.4V | 13 | 3.1V |
| 6 | 0V | 14 | 1.4V |
| 7 | 0V | 15 | 4.8V |
| 8 | 0V | 16 | 8.0V |

| Q715 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 13.8V |

| Q716 | |
|---|---|
| B | 5.0V |
| C | 0V |
| E | 0V |

CN701 20P Connector (Female)




- A: Pre Out RR
- B: Pre Out RL
- C: Antenna Ground
- D: Pre Out FL
- E: Speaker FR (+)
- F: Speaker RR (–)
- G: Speaker FL (+)
- H: Speaker RL (–)
- I: Battery
- J: Acc
- K: Telephone Mute
- L: Pre Ground
- M: Antenna
- N: Pre Out FR
- O: Speaker FR (–)
- P: Speaker RR (+)
- Q: Speaker FL (–)
- R: Speaker RL (+)
- S: Ground
- T: Motor Antenna

| PA51 | |
|---|---|
| 1 | 0V |
| 2 | 6.7V |
| 3 | 1.7V |
| 4 | 0V |
| 5 | 8.0V |
| 6 | 0.6V |
| 7 | 1.7V |
| 8 | 0V |
| 9 | 0V |
| 10 | 2.2V |
| 11 | 8.0V |
| 12 | 0V |
| 13 | 0V |
| 14 | 0V |
| 15 | 1.7V |

| PA501 | |
|---|---|
| 1 | 0V |
| 2 | 0V |
| 3 | 8.0V |
| 4 | 2.0V |
| 5 | 2.9V |
| 6 | 1.6V |
| 7 | 0V |
| 8 | 1.6V |
| 9 | 4.6V |
| 10 | 1.0V |
| 11 | 0.7V |
| 12 | 1.4V |
| 13 | 1.0V |
| 14 | 0.1V |
| 15 | 0V |
| 16 | 1.6V |
| 17 | 2.8V |
| 18 | 2.7V |
| 19 | 0V |
| 20 | 0V |

| IC431 | |
|---|---|
| 1 | 1.6V |
| 2 | 6.5V |
| 3 | 1.6V |
| 4 | — |
| 5 | 0 |
| 6 | 5.0V |
| 7 | 5.6V |
| 8 | 3.0V |
| 9 | 8.0V |

| Q51 | |
|---|---|
| B | 0V |
| C | 6.7V |
| E | 0V |

| Q431 | |
|---|---|
| B | 3.0V |
| C | 8.0V |
| E | 2.4V |

| IC450 | |
|---|---|
| 1 | 1.6V |
| 2 | 6.4V |
| 3 | 1.6V |
| 4 | — |
| 5 | 0V |
| 6 | 4.6V |
| 7 | — |
| 8 | — |
| 9 | 6.9V |

| Q450 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0V |

| Q706 | | |
|---|---|---|
| B | AM | 8.7V |
| | FM | 1.8V |
| C | AM | 0V |
| | FM | 8.5V |
| E | | 8.7V |

| Q707 | | |
|---|---|---|
| B | AM | 1.8V |
| | FM | 8.6V |
| C | AM | 8.6V |
| | FM | 0.4V |
| E | | 8.7V |

| IC202 | | | |
|---|---|---|---|
| 1 | 4.3V | 11 | 0V |
| 2 | 4.3V | 12 | 5.5V |
| 3 | 4.3V | 13 | 0V |
| 4 | 4.3V | 14 | 4.1V |
| 5 | 4.3V | 15 | 4.3V |
| 6 | 4.1V | 16 | 4.3V |
| 7 | 10.0V | 17 | 4.3V |
| 8 | 0V | 18 | 4.3V |
| 9 | 0V | 19 | 4.3V |
| 10 | 5.1V | | |

PA51
Q51
IC450
Q707
Q706
PA401
Q431
PA501
IC431

[E-6448]

Q605 Q604

| Q605 | |
|---|---|
| B | 3.9V |
| C | 0V |
| E | 0V |

| Q604 | |
|---|---|
| B | 3.9V |
| C | 0V |
| E | 0V |

Q601 IC602

| Q601 | |
|---|---|
| B | 0.7V |
| C | 0V |
| E | 1.8V |

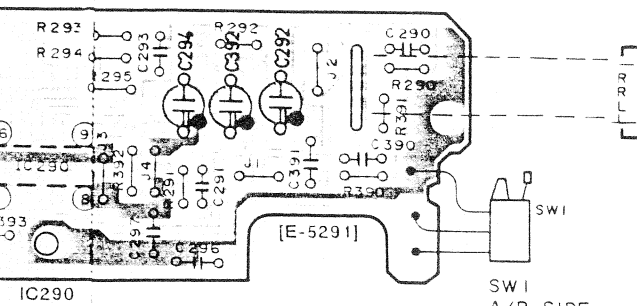
| IC602 | |
|---|---|
| 1 | 0.7V |
| 2 | 0.7V |
| 3 | 0V |
| 4 | 10V |
| 5 | 10V |

IC601

- Chip and component parts are shown in red.

IC604 Q602

| Q602 | |
|---|---|
| B | 4.9V |
| C | 0V |
| E | 0V |




SW1
A/B SIDE
DET. SWITCH

[E-1904]

HEAD

CD Changer
Control
Connector

Traffic Announcement
Control Lead

Black
Red
Black
White

CD Changer
Input
Connector

CN701

Green W/Black Stripe ( - )
Green ( + ) Left Speaker (Rear)

Violet w/Black Stripe ( - )
Violet ( + ) Right Speaker (Rear)

White W/Black Stripe ( - )
White ( + ) Left Speaker (Front)

Gray W/Black Stripe ( - )
Gray ( + ) Right Speaker (Front)

Ground

Black
10A
Yellow
Battery Lead

3A
Red
Power Lead

Antenna
Reseptacle

Black
Red
Preout RR

Black
White
Preout RL

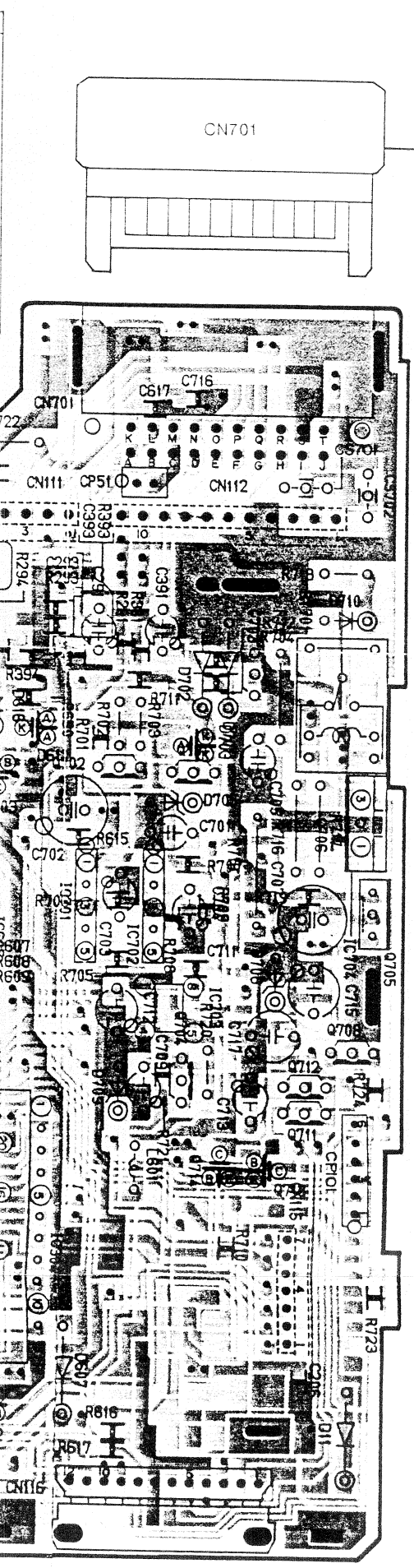
Gray
White
Preout FL

Gray
Red
Preout FR

Pre-Amp
Connector

Telephone Mute Lead

Dark Blue
Orange
Motor Antenna Relay
Control Lead




Q603
Q606
Q607
Q703
Q701
Q702
Q608
IC704
IC605
Q705
IC703
Q704
Q708
Q712
Q711
IC603
Q714
Q713

| Q603 | |
|---|---|
| B | 0V |
| C | 5.3V |
| E | 5.3V |

| Q606 | |
|---|---|
| B | 13.7V |
| C | 6V |
| E | 13.3V |

| Q607 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0V |

| Q608 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0V |

| Q701 | |
|---|---|
| B | 5.8V |
| C | 13.4V |
| E | 5.2V |

| Q702 | |
|---|---|
| B | 5.8V |
| C | 13.3V |
| E | 5.3V |

| Q703 | |
|---|---|
| B | 0.6V |
| C | 0V |
| E | 0V |

| Q704 | |
|---|---|
| B | 5.6V |
| C | 13.7V |
| E | 5.6V |

| Q705 | |
|---|---|
| B | 9.1V |
| C | 12.9V |
| E | 8.9V |

| Q708 | |
|---|---|
| B | 8.0V |
| C | 8.7V |
| E | 8.7V |

| IC701 | | | |
|---|---|---|---|
| 1 | 5.3V | | |
| 2 | 2.2V | | |
| 3 | 0V | | |
| 4 | 0V | | |
| 5 | 5.2V | | |

| IC702 | | | |
|---|---|---|---|
| 1 | 5.3V | | |
| 2 | 2.2V | | |
| 3 | 0V | | |
| 4 | — | | |
| 5 | 5.2V | | |

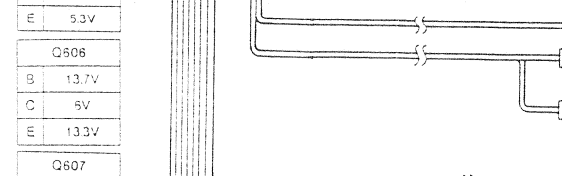
| IC704 | |
|---|---|
| 1 | 12.0V |
| 2 | 0V |
| 3 | 9.1V |

| IC703 | | | |
|---|---|---|---|
| 1 | 0V | 5 | — |
| 2 | 10V | 6 | — |
| 3 | — | 7 | 13.3V |
| 4 | 13.2V | 8 | — |

| IC605 | |
|---|---|
| 1 | 0V |
| 2 | 5.0V |
| 3 | 5.6V |
| 4 | 5.6V |
| 5 | 0V |
| 6 | 0V |
| 7 | 0V |
| 8 | 0V |
| 9 | 5.6V |
| 10 | 5.5V |
| 11 | 5.5V |
| 12 | 5.7V |
| 13 | 5.1V |
| 14 | 0V |
| 15 | 2.1V |
| 16 | 5.8V |

| Q711 | | |
|---|---|---|
| B | O | 7.8V |
| | G | 0.1V |
| C | O | 0V |
| | G | 7.7V |
| E | | 8.2V |

| Q712 | | |
|---|---|---|
| B | O | 0.2V |
| | G | 8.2V |
| C | O | 7.7V |
| | G | 0V |
| E | | 8.2V |




| Q713 | | |
|---|---|---|
| B | O | 0V |
| | G | 5.1V |
| C | O | 7.8V |
| | G | 0.1V |
| E | | 0V |

| Q714 | | |
|---|---|---|
| B | O | 0.7V |
| | G | 0.1V |
| C | O | 0.2V |
| | G | 8.2V |
| E | | 0V |

| IC603 | | | |
|---|---|---|---|
| 1 | 0V | 11 | 0V |
| 2 | 0.2V | 12 | 5.3V |
| 3 | 0.2V | 13 | 5.3V |
| 4 | 4.8V | 14 | 5.3V |
| 5 | 4.8V | 15 | 5.3V |
| 6 | 4.8V | 16 | 5.3V |
| 7 | 4.8V | 17 | 5.3V |
| 8 | 4.8V | 18 | 5.3V |
| 9 | 4.8V | 19 | 5.3V |
| 10 | 0V | 20 | 5.3V |

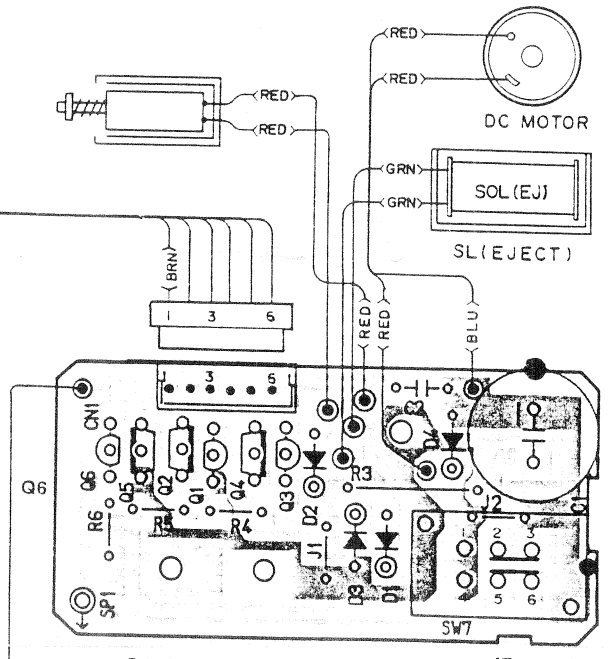
| IC604 | | | |
|---|---|---|---|
| 1 | 5.3V | 13 | 4.8V |
| 2 | 5.3V | 14 | 4.8V |
| 3 | 5.3V | 15 | 4.8V |
| 4 | 5.3V | 16 | 4.8V |
| 5 | 5.3V | 17 | 4.8V |
| 6 | 5.3V | 18 | 0V |
| 7 | 5.3V | 19 | 5.1V |
| 8 | 5.3V | 20 | 5.1V |
| 9 | 0.2V | 21 | 5.1V |
| 10 | 0.2V | 22 | 5.1V |
| 11 | 4.8V | 23 | 0V |
| 12 | 0V | 24 | 5.3V |

RED
RED
DC MOTOR

GRN
GRN
SOL (EJ)
SL (EJECT)

RED
RED
BLU

BRN
1 3 6

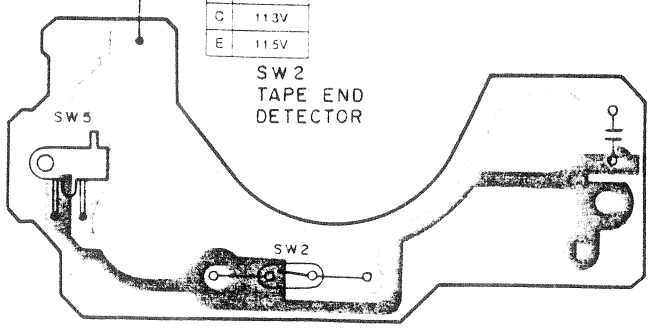



Q5 Q2 Q1 Q4 Q3

[E-2032]

| Q6 | |
|---|---|
| B | 10.8V |
| C | 11.3V |
| E | 11.5V |

SW2
TAPE END
DETECTOR




[E-2032]

SW5 AUTO METAL SWITCH

| Q1 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

| Q2 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

| Q3 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

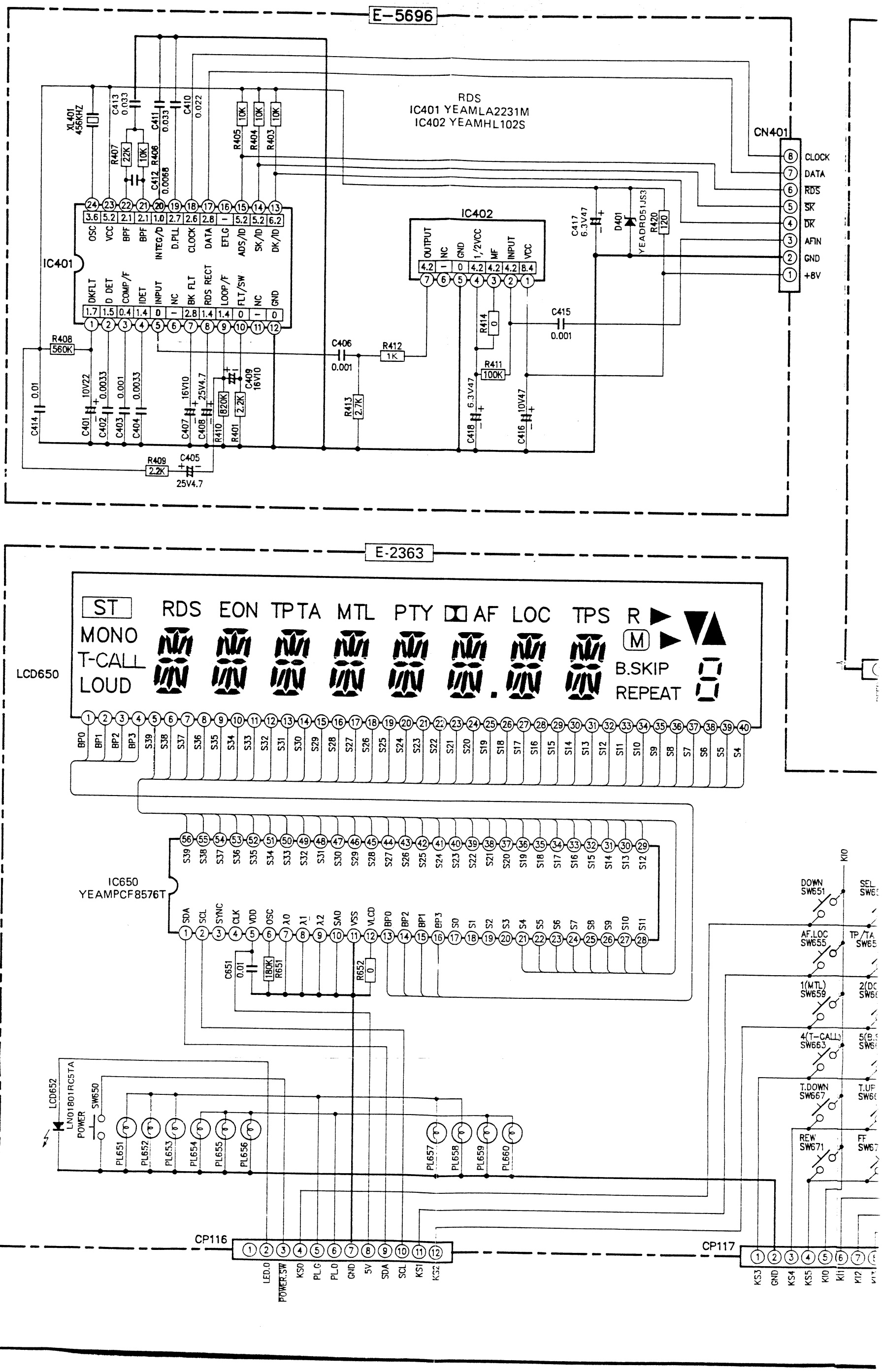
| Q4 | |
|---|---|
| B | 0V |
| C | 12.0V |
| E | 0V |

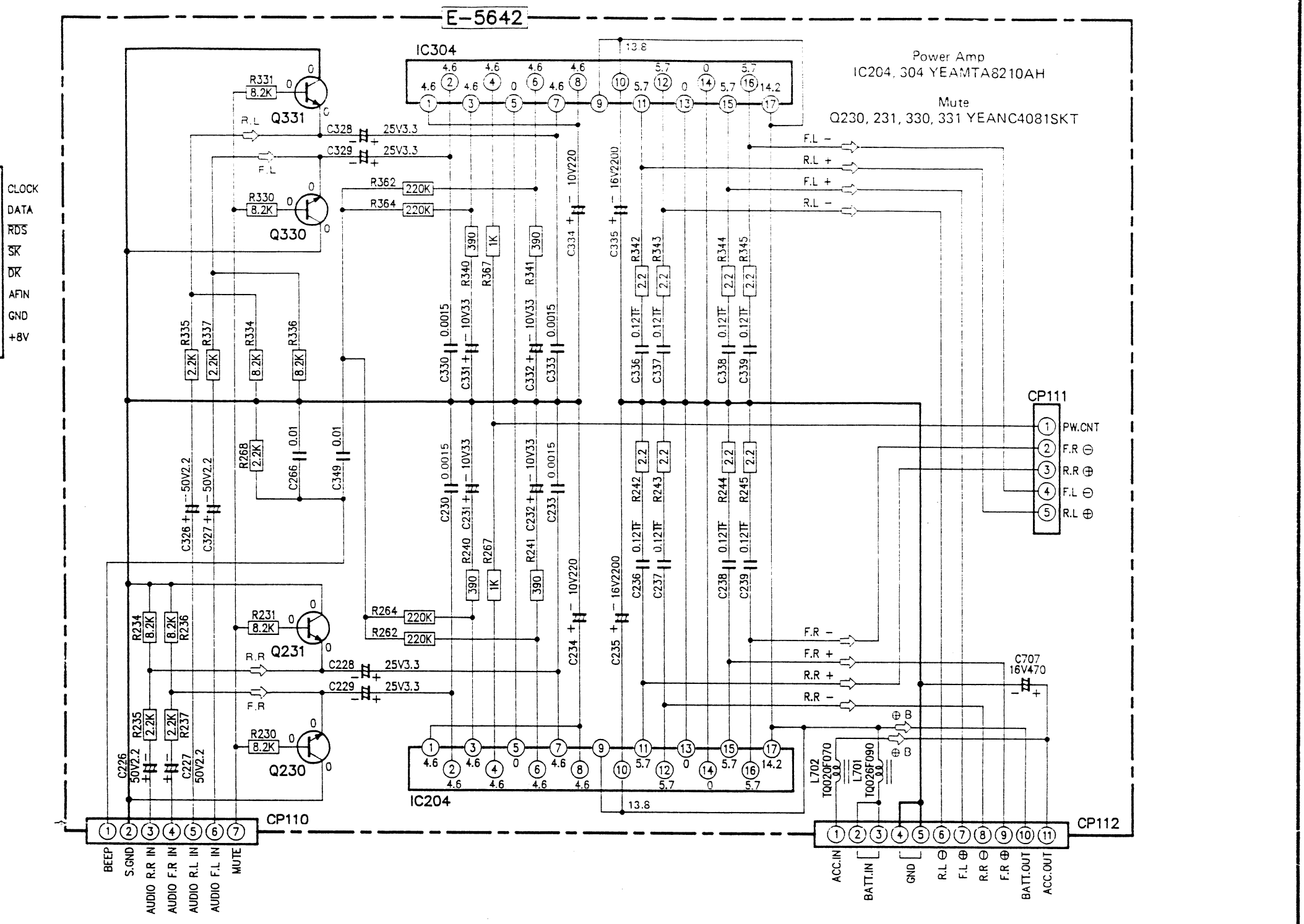
| Q5 | |
|---|---|
| B | 5.0V |
| C | 0V |
| E | 0V |

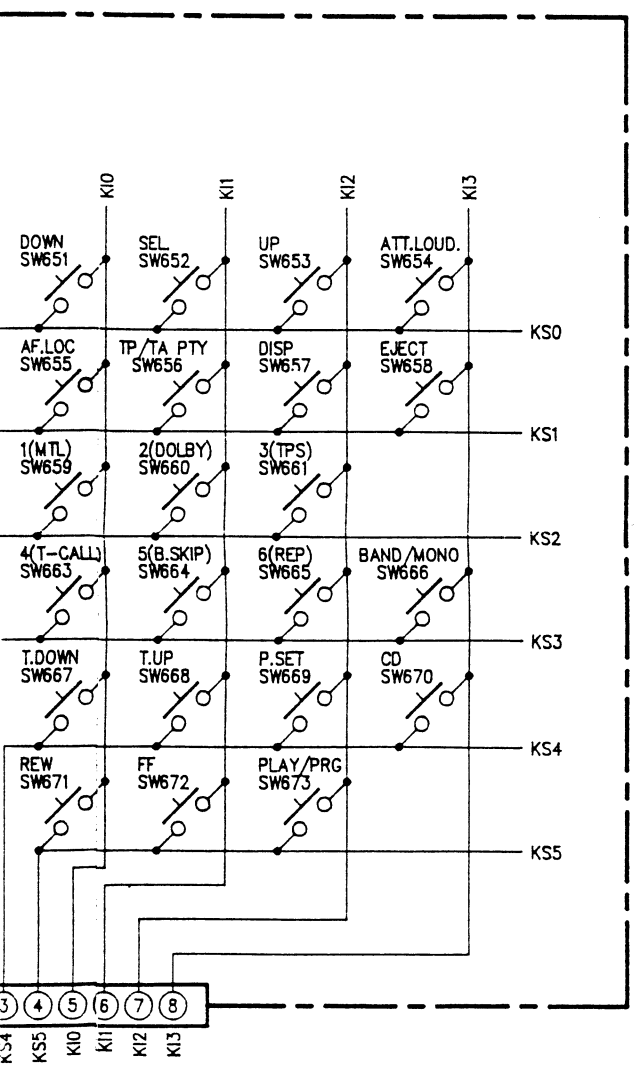
# Radio Data System Digital Control Tuner /Cassette Player
# Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

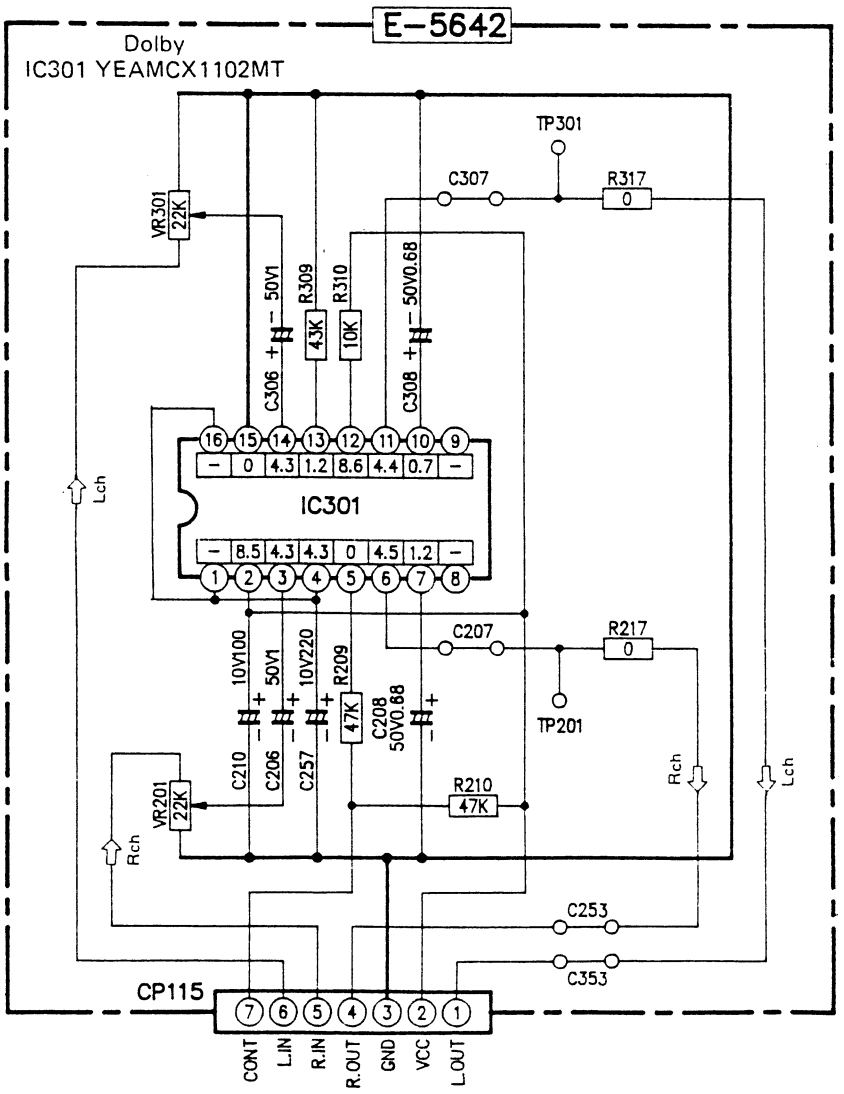
# Schematic Diagram (Dolby, Amp, Display Block)
# Schematisches Diagramm(Dolby, Verstärker, Anzeigeblock)

MODEL CQ-RD25EN





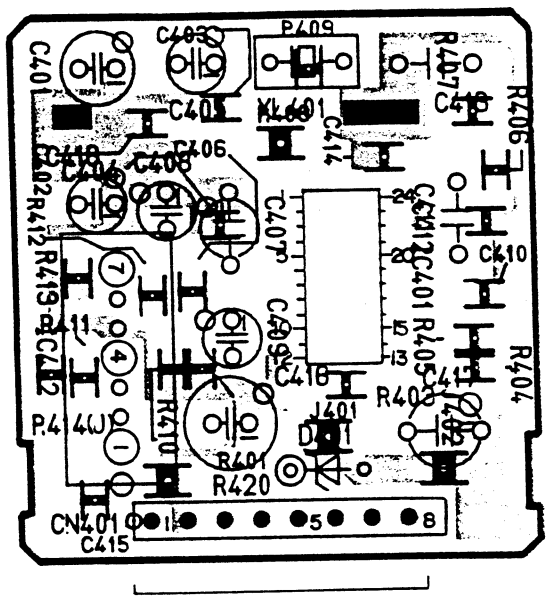




## Radio Data System Digital Control Tuner /Cassette Player
## Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler

# Wiring Diagram(Dolby, Amp, Display Block)
# Diagramm für Verkabelung(Dolby, Verstärker, Anzeigeblock)

MODEL CQ-RD25EN

[E-5696]



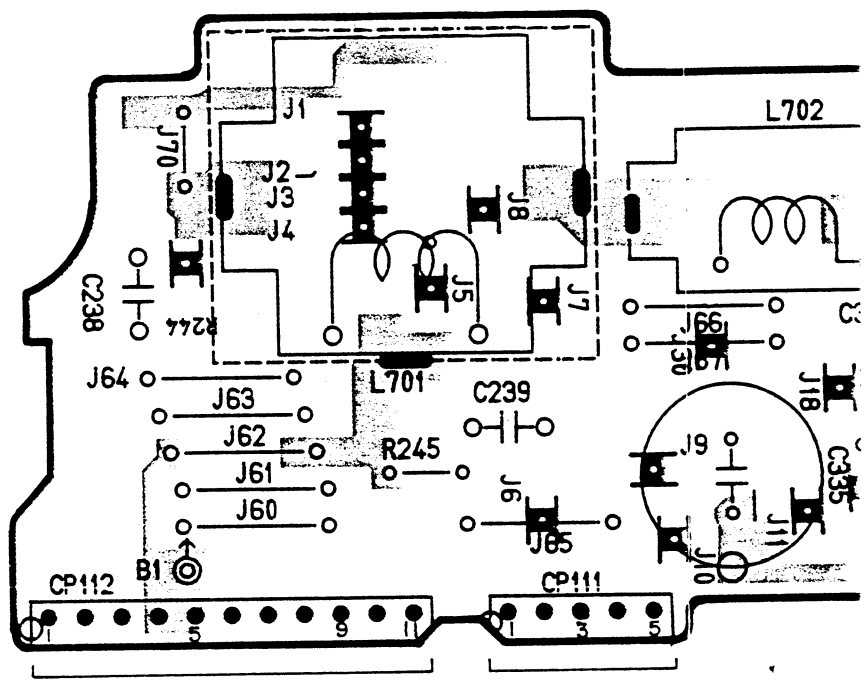

IC402

IC401

To Main Block
E-6448A PA401

| IC402 | |
|---|---|
| 1 | 8.4V |
| 2 | 4.2V |
| 3 | 4.2V |
| 4 | 4.2V |
| 5 | 0V |
| 6 | — |
| 7 | 4.2V |

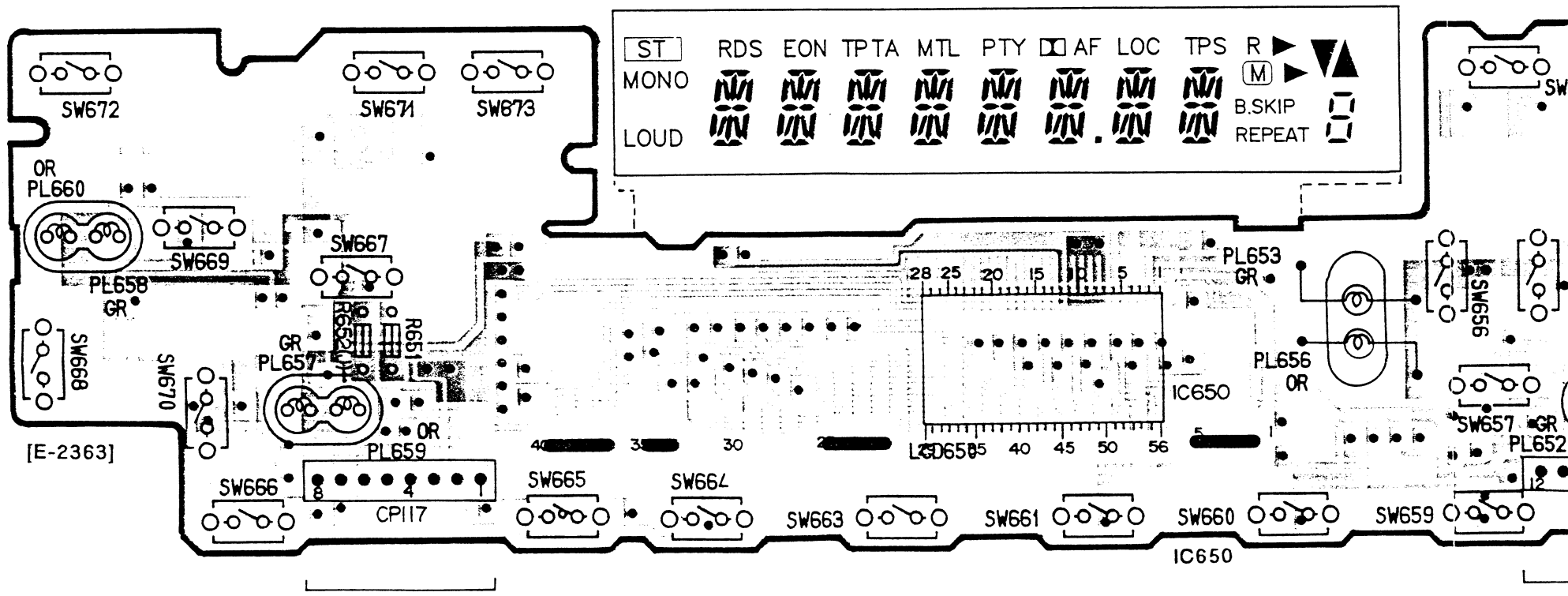
| IC401 | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 1.7V | 7 | 2.6V | 13 | 5.2V | 19 | 2.7V |
| 2 | 1.5V | 8 | 1.4V | 14 | 5.2V | 20 | 1.0V |
| 3 | 0V | 9 | 1.4V | 15 | 5.2V | 21 | 2.1V |
| 4 | 1.4V | 10 | 0V | 16 | — | 22 | 2.1V |
| 5 | 0V | 11 | — | 17 | 2.8V | 23 | 5.2V |
| 6 | — | 12 | 0V | 18 | 2.6V | 24 | 2.6V |




To Main Block
E-6448A CN112

To Main Block
E-6448A CN111

LCD650



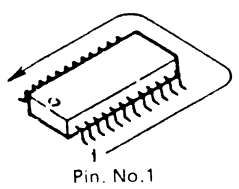

To Main Block
E-6448A CN117

PL651 to 660 Pilot Lamp

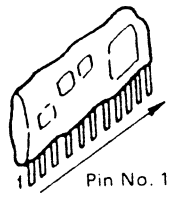
| | |
|---|---|
| SW650 | Power Switch |
| SW651 | AUDIO Down Switch |
| SW652 | SELECT Switch |
| SW653 | AUDIO Up Switch |
| SW654 | ATT. LOUD Switch |
| SW655 | AF, LOC Switch |
| SW656 | TP/TA PTY Switch |
| SW657 | DISPLAY Switch |
| SW658 | EJECT Switch |
| SW659 | Preset "1"/MTL Switch |
| SW660 | Preset "2"/Dolby Switch |
| SW661 | Preset "3"/TPS Switch |
| SW663 | Preset "4"/T-CALL Switch |
| SW664 | Preset "5"/B-SKIP Switch |
| SW665 | Preset "6"/REP Switch |
| SW666 | BAND/MONO Select Switch |
| SW667 | Tune Down Switch |
| SW668 | Tune Up Switch |
| SW669 | P.SET Switch |
| SW670 | CD Mode Switch |
| SW671 | REW Switch |
| SW672 | FF Switch |
| SW673 | PLAY/PRG Switch |

| IC204, 304 | | | |
|---|---|---|---|
| 1 | 4.6V | 10 | 14.2V |
| 2 | 4.6V | 11 | 5.7V |
| 3 | 4.6V | 12 | 5.7V |
| 4 | 4.6V | 13 | 0V |
| 5 | 0V | 14 | 0V |
| 6 | 4.6V | 15 | 5.7V |
| 7 | 4.6V | 16 | 5.7V |
| 8 | 4.6V | 17 | 14.2V |
| 9 | 14.2V | | |

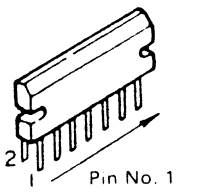
## ICs & Transistors




| IC301 | 16Pin |
|---|---|
| IC401 | 24Pin |
| IC650 | 56Pin |

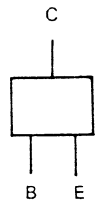



| IC401 | 7Pin |
|---|---|



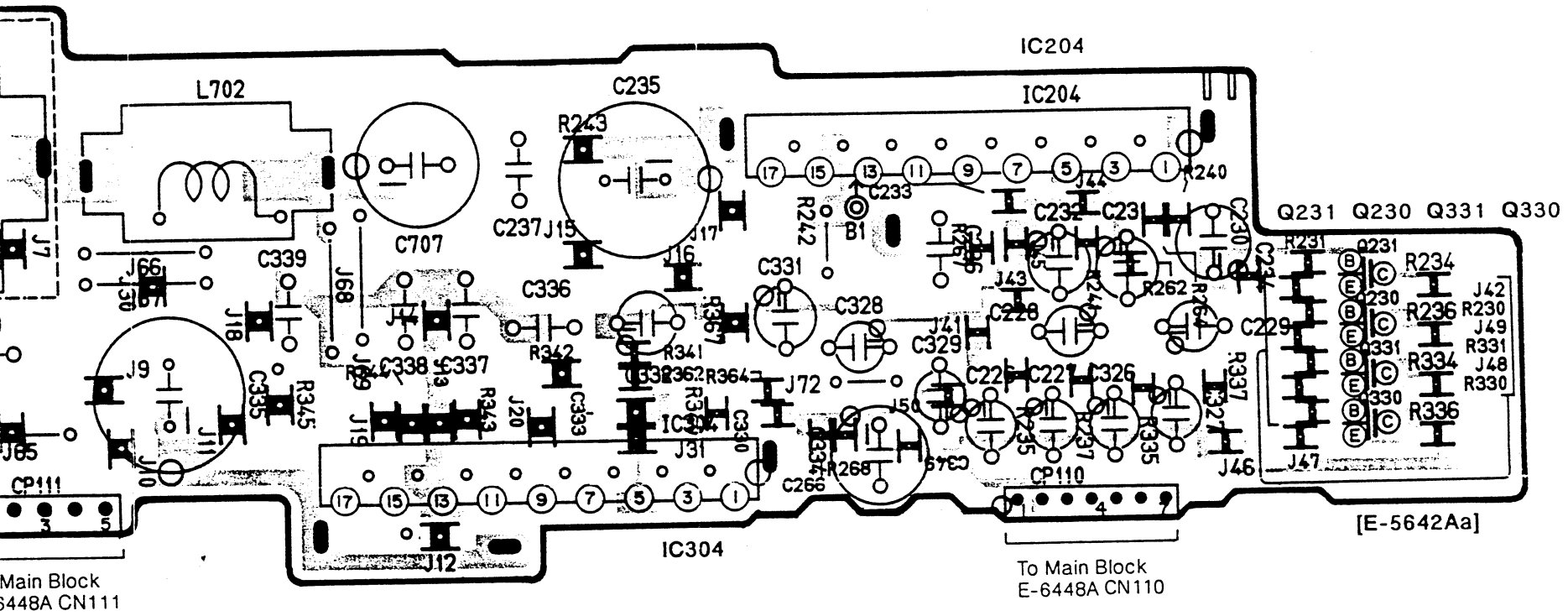

| IC204<br>IC304 | 17Pin |
|---|---|

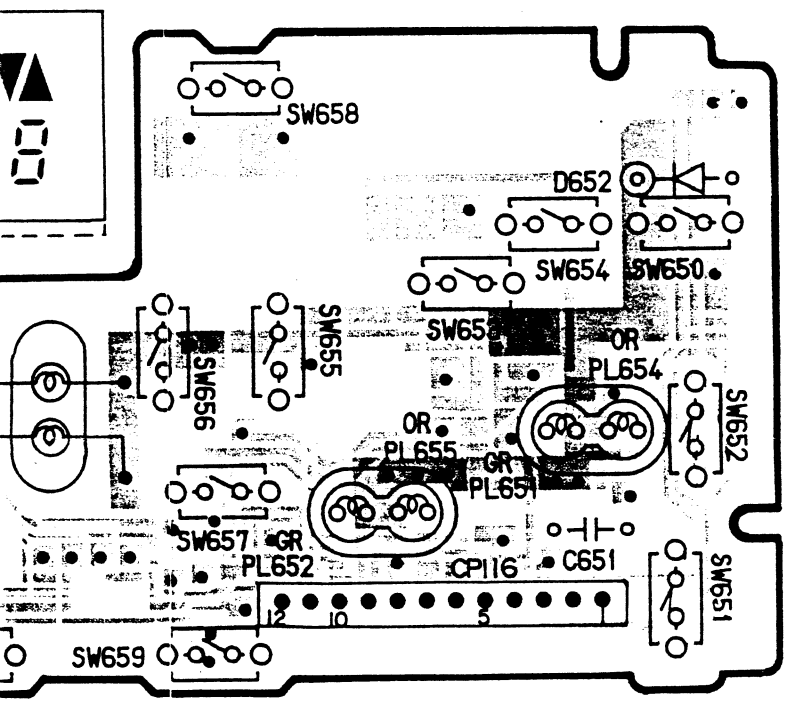
Transistor

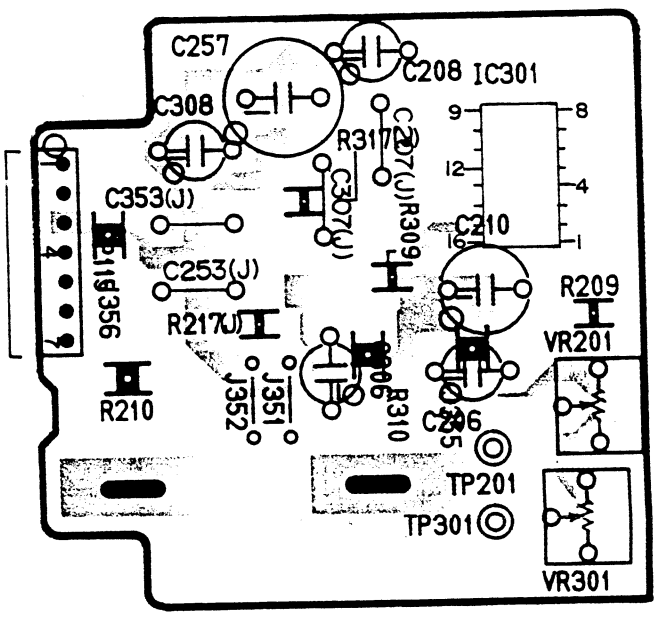



| Q230, 231 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0 |

| Q330, 331 | |
|---|---|
| B | 0V |
| C | 0V |
| E | 0 |




| IC301 | | | |
|---|---|---|---|
| 1 | — | 9 | — |
| 2 | 8.5V | 10 | 0.7V |
| 3 | 4.3V | 11 | 4.4V |
| 4 | 1.3V | 12 | 8.6V |
| 5 | 0V | 13 | 1.2V |
| 6 | 4.5V | 14 | 4.7V |
| 7 | 1.2V | 15 | 0V |
| 8 | — | 16 | — |

SW667 Tune Down Switch
SW668 Tune Up Switch
SW669 P.SET Switch
SW670 CD Mode Switch
SW671 REW Switch
SW672 FF Switch
SW673 PLAY/PRG Switch

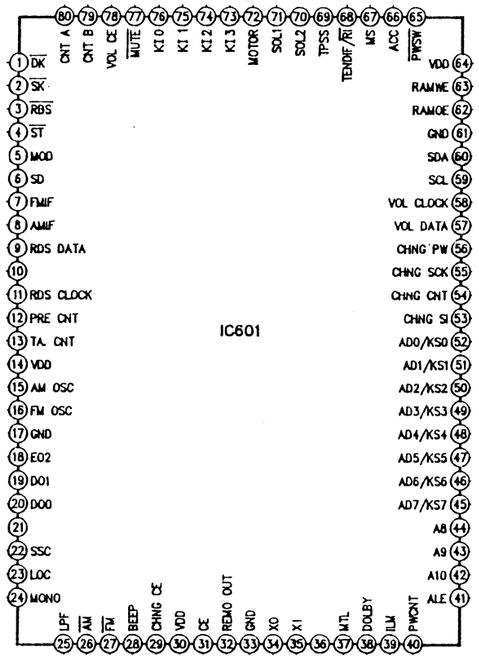
**Radio Data System Digital Control Tuner /Cassette Player**
**Radio-Datensystem-Digital-kontroll Tuner/Cassettenspieler**

# Operation of LSI/Bedieung des LSI

(YEAM17006521)

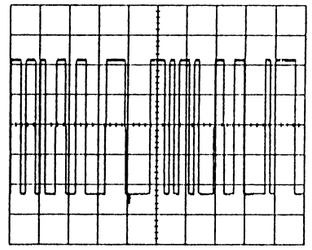
• Name of terminals description of connection

| Terminal | Port | Description |
|---|---|---|
| 1 | $\overline{DK}$ | DK Control |
| 2 | $\overline{SK}$ | SK Control |
| 3 | $\overline{RDS}$ | RDS Control |
| 4 | ST | Stereo Indicator Control |
| 5 | MOD | Mode Control |
| 6 | SD | Field Strength Input |
| 7 | FM IF | Fm IF Counter |
| 8 | AM IF | AM IF Counter |
| 9 | RDS DATA | RDS Data |
| 10 | — | — |
| 11 | RDS CLOCK | RDS Clock |
| 12 | PRE CNT | Pre Out Control |
| 13 | TA.CONT | TA Control |
| 14 | VDD | Power Supply, +5V |
| 15 | AM OSC | AM Local OSC |
| 16 | FM OSC | FM Local OSC |
| 17 | GND | Ground |
| 18 | E02 | PLL Error Output |
| 19 | E01 | Non Connection |
| 20 | E00 | PLL Error Output |
| 21 | — | — |
| 22 | SSC | Serch Stop Clear |
| 23 | LOC | Tuner Sensitivity Control |
| 24 | MONO | MONO Indicator Control |
| 25 | LPF | Low Pass Filter |
| 26 | $\overline{AM}$ | AM Mode Control |
| 27 | $\overline{FM}$ | FM Mode Control |
| 28 | BEEP | Sensor Tone |
| 29 | CHNG CE | CD Changer Chip Enable |
| 30 | VDD | Power Supply, +5V |
| 31 | CE | Chip Enable |
| 32 | REMO OUT | Remoto Control Out |
| 33 | GND | Ground |
| 34 | X0 | Crystal Oscillator |
| 35 | X1 | Crystal Oscillator |
| 36 | — | — |
| 37 | MTL | Metal Control |
| 38 | DOLBY | Dolby Control |
| 39 | ILM | Illumination Control |
| 40 | PWCNT | Power Control |
| 41 | ALE | Latch Enable |
| 42 to 44 | A10 to A8 | Adress Input |
| 45 to 52 | AD7/KS7 to AD0/KS0 | Key Matrix |
| 53 | CHNG SI | CD Changer Data |
| 54 | CHNG CNT | CD Changer Control |
| 55 | CHNG SCK | CD Changer Clock |
| 56 | CHNG PW | CD Changer Power Input |
| 57 | VOL DATA | Electronic Volume Data |
| 58 | VOL CLOCK | Electronic Volume Clock |
| 59 | SCL | LCD Driver Clock |
| 60 | SDA | LCD Driver Data |



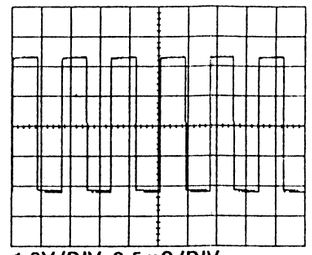

| Terminal | Port | Description |
|---|---|---|
| 61 | GND | Ground |
| 62 | $\overline{RAMOE}$ | RAM Chip Enable |
| 63 | $\overline{RAMWE}$ | Lead Wright Input |
| 64 | VDD | Power Supply, +5V |
| 65 | $\overline{PWSW}$ | Power Switch Control |
| 66 | ACC | ACC +5V |
| 67 | MS | Music Sensor |
| 68 | TEND | Tape end detect |
| 69 | TPSG | TPS Control |
| 70, 71 | SOL1.2 | Solenoid Coil Control |
| 72 | MOTOR | Motor Control |
| 73 to 76 | KI3 to KI0 | Key Matrix |
| 77 | $\overline{MUTE}$ | Mute |
| 78 | VOL CE | Electronic Volume Chip Enable |
| 79 | CNT B | Control B |
| 80 | CNT A | Control A |

⑨ RDS DATA



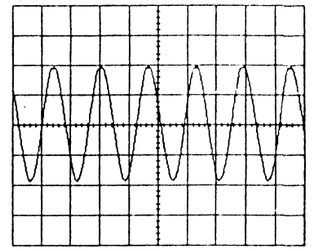
1.0V/DIV, 5.0mS/DIV

⑪ RDS CLOCK



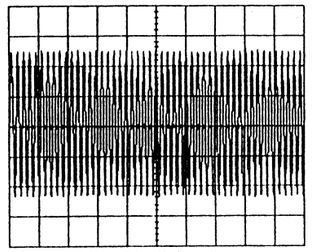
1.0V/DIV, 0.5mS/DIV

⑮ AM OSC



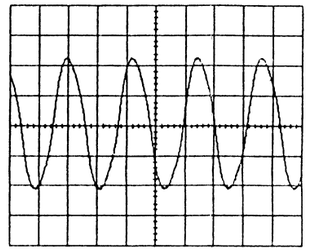
0.2V/DIV, 50nS/DIV

⑯ FM OSC



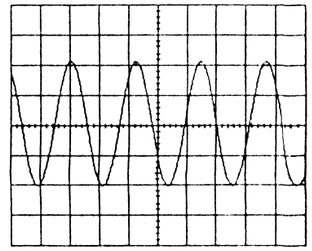
20μV/DIV, 50nS/DIV

㉞ XO



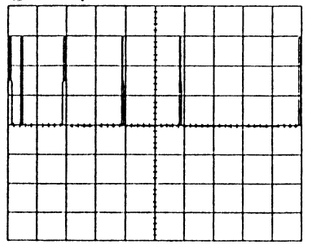
1.0V/DIV, 0.1μS/DIV

㉟ XI



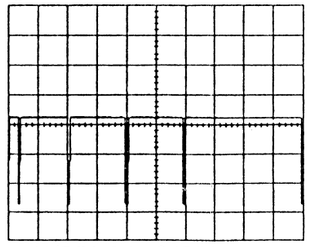
1.0V/DIV, 0.1μS/DIV

㊻ AD6/KS6



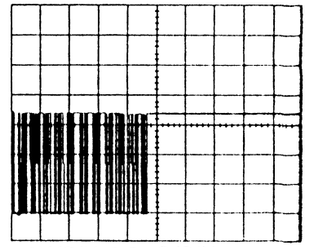
1.0V/DIV, 5.0mS/DIV

㊼ to ㊿



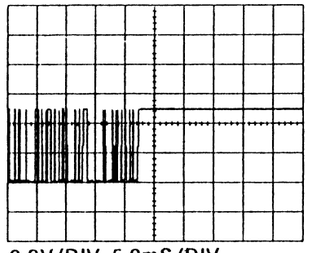
1.0V/DIV, 5.0mS/DIV

59 SCL



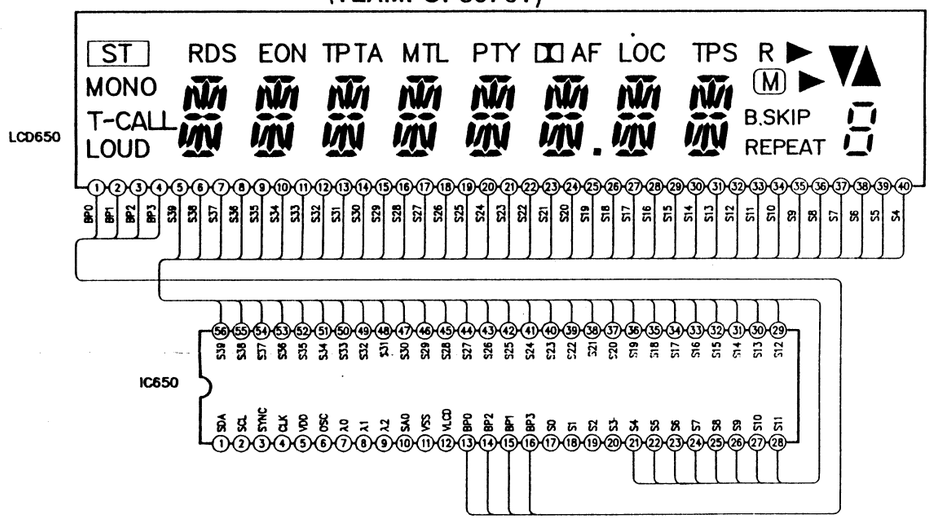
1.0V/DIV, 2.0mS/DIV

60 SDA

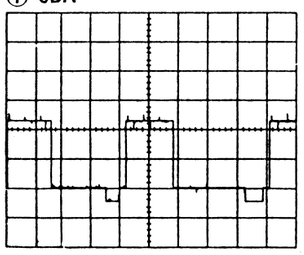


2.0V/DIV, 5.0mS/DIV

(YEAMPCF8576T)

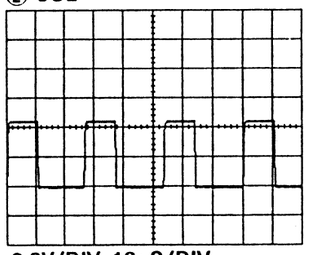



① SDA



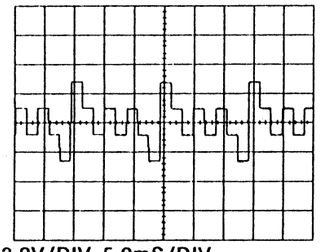
2.0V/DIV, 50μS/DIV

② SCL



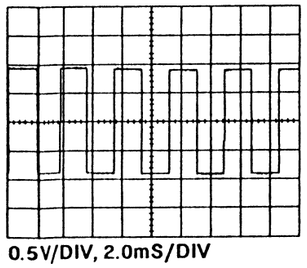
2.0V/DIV, 10μS/DIV

⑬ BP0



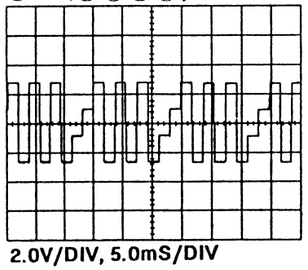
2.0V/DIV, 5.0mS/DIV

㉓ S6 (㉝ ㉟ ㊵ ~ ㊸ ㊸ ㊻)



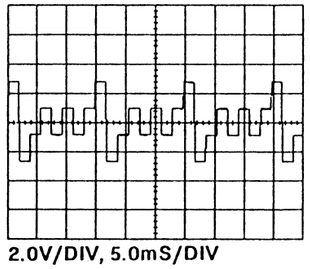
0.5V/DIV, 2.0mS/DIV

㉑ S4 (㉜ ㊱ ㊴ ㊺)



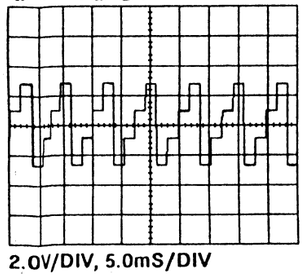
2.0V/DIV, 5.0mS/DIV

㉖ S9 (㉕ ㉖ ㉙ ㉚ ㉞ ㊲ ㊳ ㊺ ㊻ ㊾ ㊷ ㊹)



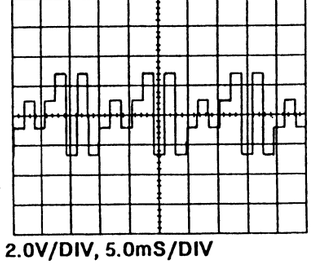
2.0V/DIV, 5.0mS/DIV

㉗ S10 (㊽ ㊶)



2.0V/DIV, 5.0mS/DIV

㉘ S11 (㉘ ㉛ ㊹ ㊲)



2.0V/DIV, 5.0mS/DIV



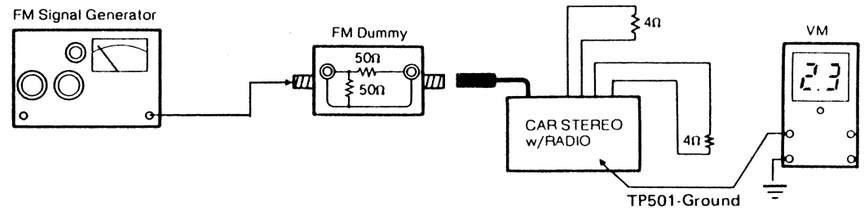
# Alignment Instructions

- Power Supply Voltage :DC 14.4V
- Output Inpedance :4Ω
- Output power :0.5W
- Balance Control :Center
- Fader Control :Center
- Tone Control (Bass/Tre) :Center
- Loudness Switch :OFF

**NOTE:** Do not align the AM, FM IF and MPX package blocks. When the package block is necessary, it will be supplied already alignment at the factory.

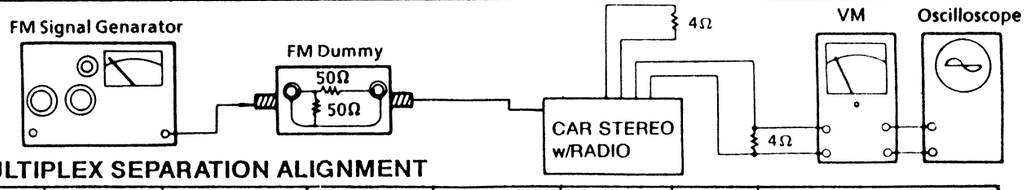
## 1. FM CONTROL VOLTAGE ALIGNMENT

| Step | Allgnment Item | Band Selector | Signal Generator | Input Terminal | VM Connection | Display | Adjust | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | FM CONTROL VOLTAGE | FM | 98.0 MHz 24 dB/μV | Antenna Receptacle | TP501-Ground | 98.0 MHz | VR502 | •Adjust for 2.3V ± 0.05V |



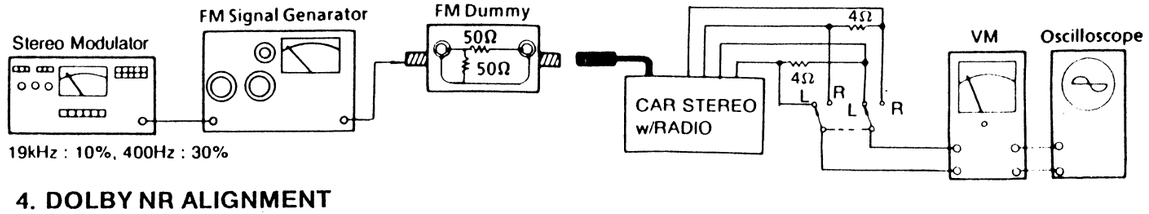

## 2. FM SOFT MUTE ALIGNMENT

| Step | Allgnment Item | Band Selector | Signal Generator | Input Terminal | VM Connectoion | Display | Adjust | Remarks |
|---|---|---|---|---|---|---|---|---|
| 2 | FM SOFT MUTE | FM | 98.0 MHz 54 dB/μV | Antenna Receptacle | Speaker Terminal | 98.0 MHz | VOL. | •Adjust for 0.5W output (4Ω) |
| 3 | | | 98.0 MHz -20 dB/μV | | | | VR501 | •Adjust for -30 dB ± 2 dB output |




## 3. FM MULTIPLEX SEPARATION ALIGNMENT

| Step | Allgnment Item | Band Selector | Signal Generator | Input Terminal | VM Connectoion | Display | Adjust | Remarks |
|---|---|---|---|---|---|---|---|---|
| 4 | FM MPX | FM | 98.0 MHz 74 dB/μV [400Hz 30%] | Antenna Receptacle | Speaker Terminal | 98.0 MHz | VR503 | •Adjust for Maximum separation |




19kHz : 10%, 400Hz : 30%

## 4. DOLBY NR ALIGNMENT

| Step | Allgnment Item | Input Terminal | Test Tape | VM Connectlon | Adjust | Remarks |
|---|---|---|---|---|---|---|
| 5 | Dolby NR | Playback Head | TCC - 130 | TP201 – Ground | VR201 (Rch) | •Adjust for 388 ± 22mV |
| 6 | | | | TP301 – Ground | VR301 (Lch) | •Adjust for 388 ± 22mV |

## 5. HEAD HEIGHT ALIGNMENT IF THE HEAD IS REPLACE

| Step | Alignment Item | Test Tape | Adjust | Remarks |
|---|---|---|---|---|
| 7 | Head Height | Tape path viewer (with mirror) | Head Mounting screws (Right and Left) | • Temporarily tighten the Head mounting screws (Right and Left) to the position shown in Figure 1.<br>• Insert the Test Tape into the set, and press the play button (Keep power off.)<br>• Adjust the height to the Head to be as shown in Figure 2 as viewed in front of the mirror, using the Head mounting screws. |

Note: • Test Tape No. : QZZCRD
• Make sure that the head cores are even top and bottom

Fig. 1

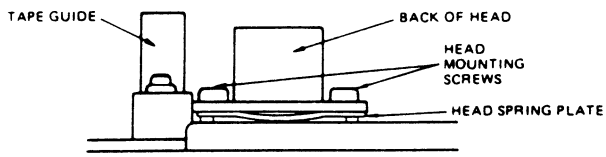
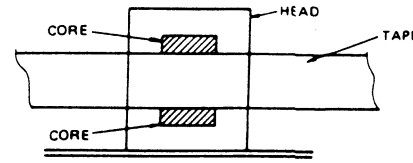


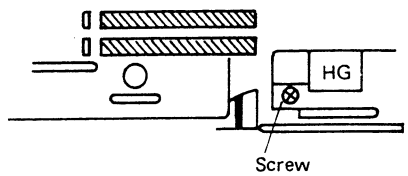

Fig. 2

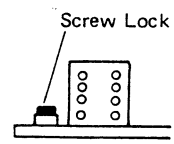



## 6. HEAD AZIMUTH ALIGNMENT

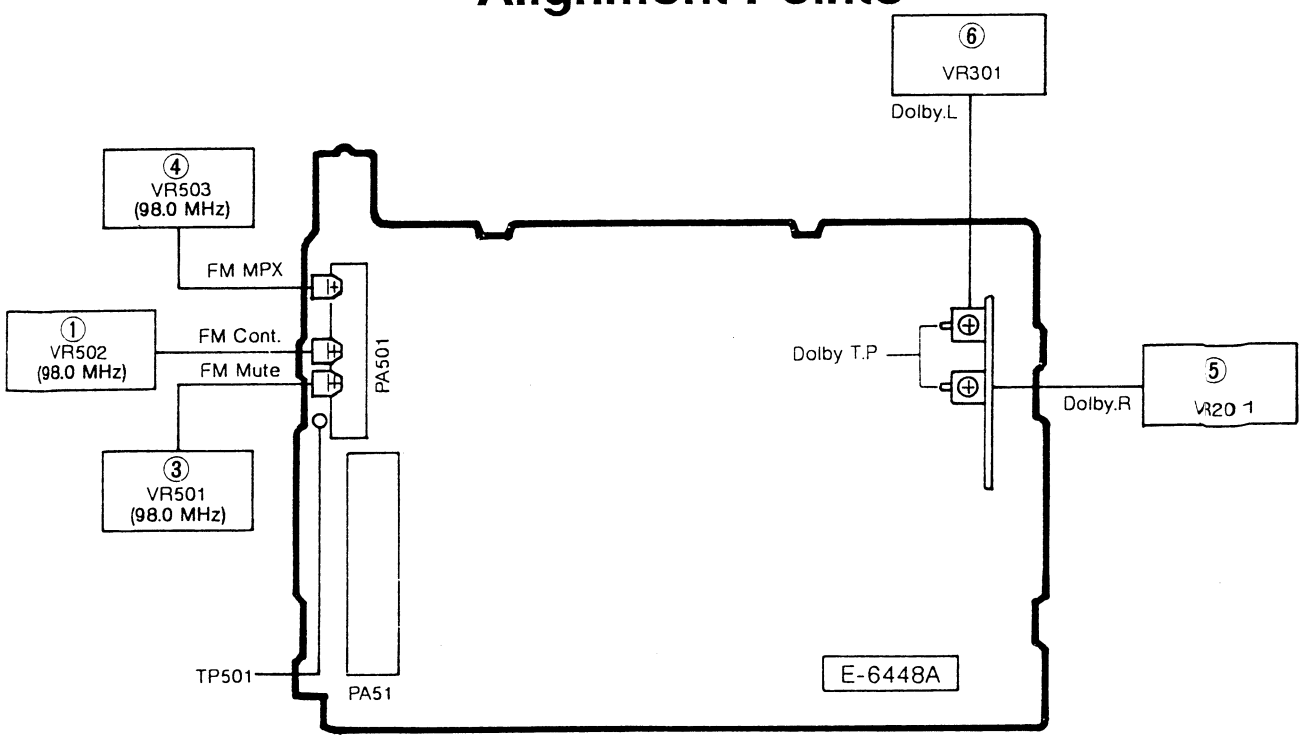
| Step | Alignment Item | Test Tape | Input Terminal | VM Connection | Adjust | Remarks |
|---|---|---|---|---|---|---|
| 8 | Head Azimuth | TCC-153 | Playback Head | Speaker Terminals | Head Azimuth Adjustment Screw | • Adjust for maximum output.<br>• Use ⊕Screw driver. |

Note: If you do not have a test tape, use a tape whose recording level is than 6 kHz for head adjustment.
After the above adjustment apply bonding agent to the adjustment screw.




# Alignment Points



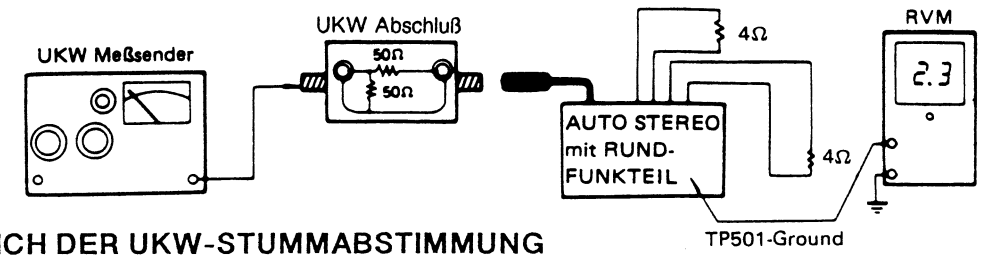
# Anweisungen zur Abgleichung

- Spannungsversorgung :DC 14,4V
- Auspangsimpedanz :4Ω
- Ausgangsleistung :0,5W
- Balanceregler :Mittte
- Überblendregler :Mitte
- Klangregler :Mitte
- Schalter für gehörrichtige Lautstärke :AUS

HINWEIS: Die AM-und UKW-FE-Radioblocks dürfen nicht ausgerichtet werden.
Wenn das Radioblock erforderlich ist, wird dieses bereits ab Werk ausgerichtet.

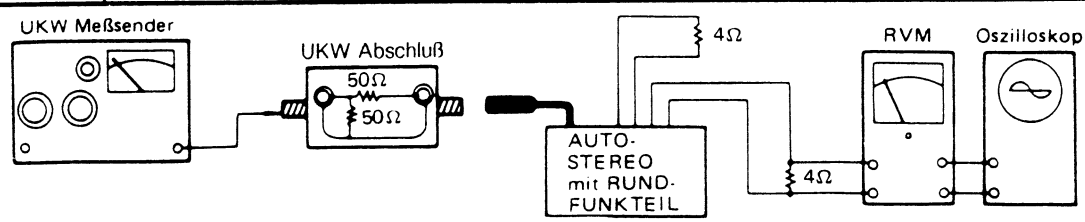
## 1. UKW STEUERSPANNUMGS-ABGLEICH

| Stufe | Abgleich-objekt | Stellung des Wellenbereich-umschalters | Meßsender-frequenz | Ankopplung des Meßsenders | Anschluß des Anzeige-instruments | Anzeige | Abgleich | Ammerkung |
|---|---|---|---|---|---|---|---|---|
| 1 | UKW STEUER-SPANNUNG | UKW | 98.0 MHz 24 dB/μV | Antennen-anschluß | TP501-Erdung | 98.0 MHz | VR502 | •Auf 2,3 ± 0.05V stellen. |



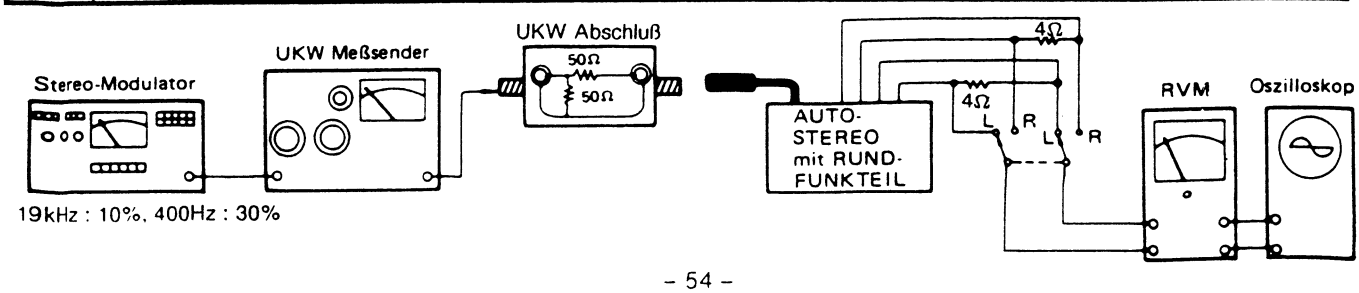

## 2. ABGREICH DER UKW-STUMMABSTIMMUNG

| Stufe | Abgleich-objekt | Stellung des Wellenbereich-umschalters | Meßsender-frequenz | Ankopplung des Meßsenders | Anschluß des Anzeige-instruments | Anzeige | Ab-gleich | Ammerkung |
|---|---|---|---|---|---|---|---|---|
| 2 | UKW STUMM-ABSYI-MMUNG | UKW | 98.0 MHz 54 dB/μV | Antennen-auschluß | Lautsprecher-anschlüsse | 98.0 MHz | Lautst-ärke | • Auf 0.5W (4Ω) stellen. |
| 3 | | | 98.0 MHz -20 dB/μV | | | | VR501 | • Auf -30dB ± 2dB stellen. |




## 3. ABGLEICH VON UKW-MULTIPLEX TRENNUNG

| Stufe | Abgleich-objekt | Stellung des Wellenbereich-umschalters | Meßsender-frequenz | Ankopplung des Meßsenders | Anschluß des Anzeige-instruments | Anzeige | Abgleich | Ammer-kung |
|---|---|---|---|---|---|---|---|---|
| 4 | UKW MPX | UKW | 98.0 MHz 74 dB/μV | Antennen-steckdose | Lautsprecher-anschlüsse | 98.0 MHz | VR503 | • Auf maximale Trennung einstellen. |




19kHz : 10%, 400Hz : 30%

## 4. DOLBY NR ABGLEICH

| Schritt | Abgleichungspunkt | Testband | Anschluß des Anzeige instrument | Justierung | Anmerkung |
|---|---|---|---|---|---|
| 5 | DOLBY NR | TCC-130 | TP201 - Erdung | VR201(Rch) | ●Auf 388 mV ± 22mV |
| 6 | | TCC-130 | TP301 - Erdung | VR301(Lch) | ●Auf 388 mV ± 22mV |

## 5. KOPFHOÖHENABGLEICH (WENN DER KOPF ERNEUERT WIRD)

| Schritt | Abgleich-punkt | Prüfband | Einstellen | Bemerkungen |
|---|---|---|---|---|
| 7 | Kopfhöhe | Bandweg-Sichtgerät (mit Spiegel) | Kopfbefestigungsschrauben (rechts und links) | • Die Kopfbefestigungsschrauben (rechts und links) vorläufig an der in Abb. 1 gezeigten position festziehen,<br>• Das Prüf band in das Gerät einsetzen und die Wiedergabe-taste drücken (ohne die Stromversorgung einzuschalten),<br>• Die Kopfhöhe gemäß Abb. 2 (von der Vorderseite des Spiegels gesehen) mit den Kopfbefestigungsschrauben einstellen, |

**Hinweis:** • Prüfband-Nr. : QZZCRD
• Darauf achten. daß die Kopfkerne oben und unten gleich angeordnet sind,

Abb. 1

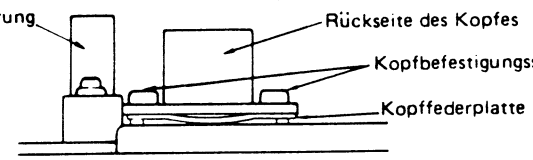
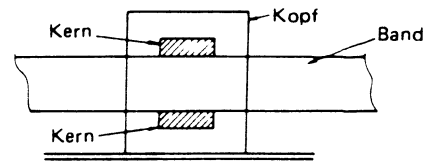


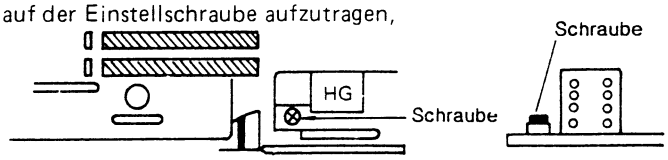

Abb. 2



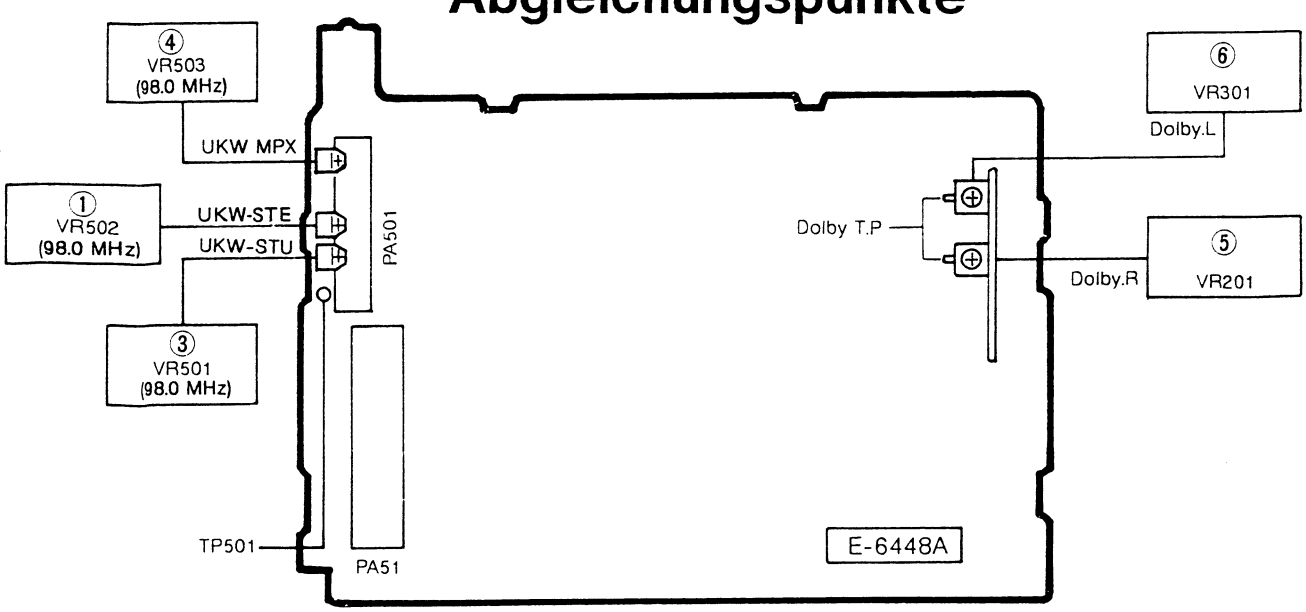

## 6. KOPFAZIMUTABGLEICH

| Schritt | Abgleich-punkt | Prüfband | Eingangs-klemme | VM Anschluß | Einstellen | Bemerkungen |
|---|---|---|---|---|---|---|
| 8 | Kopfazimut | TCC-153 | Wiederga-bekopf | Lautsprecher-klemmen | Kopfazimut-Einstellschraube | • Auf maximalen Ausgang einstellen.<br>• Einen Kreuzschlitzschraubendreher verwenden. |

**Hinweis:** Falls Sie über kein Prüfband verfügen. ein Band mit einem Aufnahmepegel von 6 kHz für die Kopfeinstellung verwenden, Nach der obigen Einstellung ist Sicherungslack auf der Einstellschraube aufzutragen,



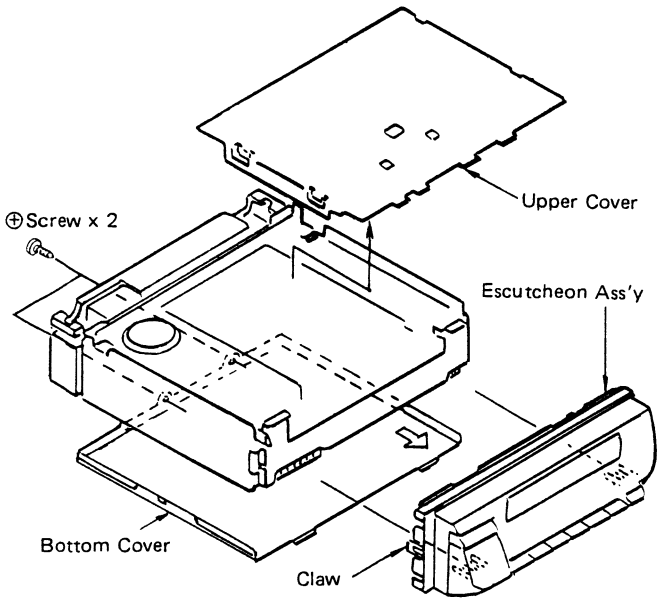

# Abgleichungspunkte



# Disassembly Instructions

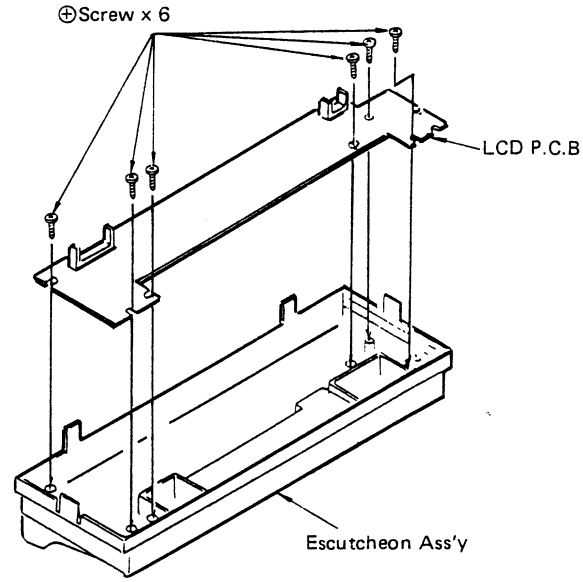
**1. Escutcheon Ass'y Removal**

- Take out the two screws and remove the upper cover and bottom cover.



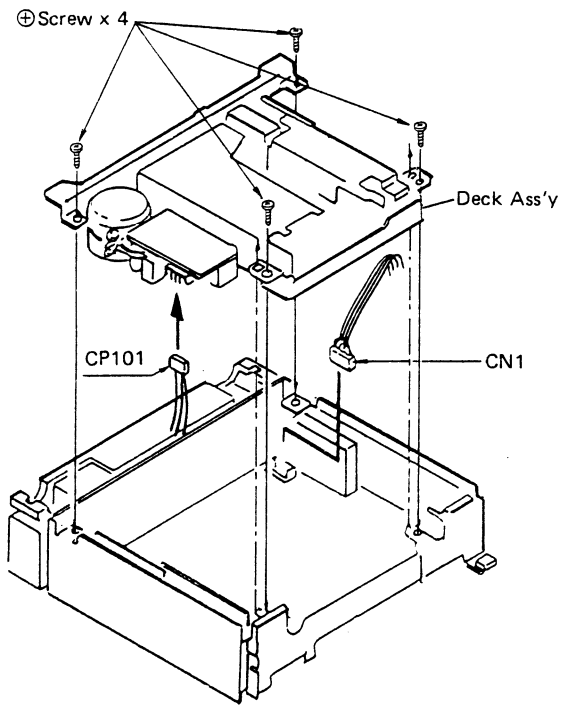

**2. LCD PCB Removal**

- Remove six screws. (Remove seven pieces of CQ-RD25EN.)



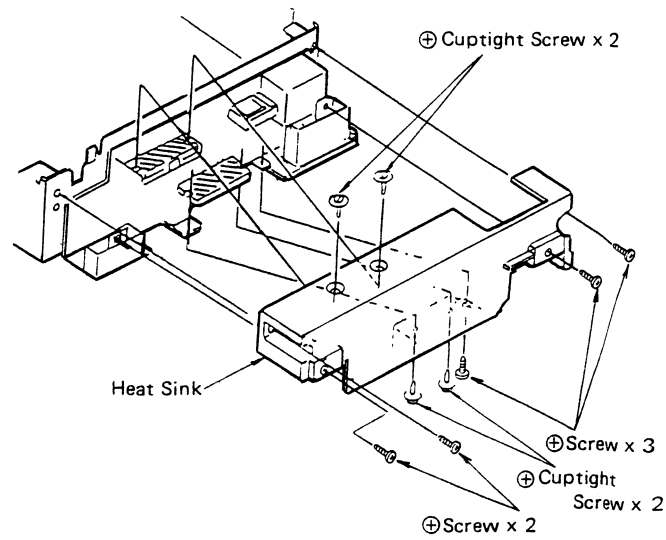

**3. Deck Ass'y Removal**

- Remove the four screws.
- Remove a connector at two points and lift the deck.




**4. Heat Sink Removal**

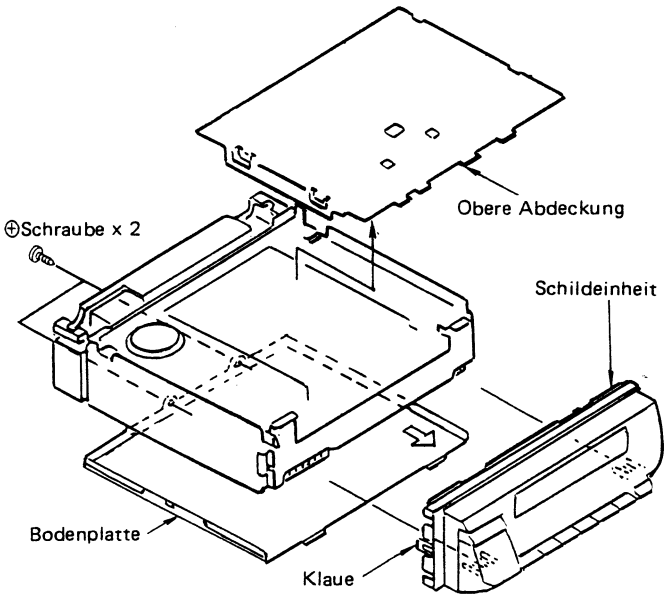
- Remove the six screws.
- Pull out the heat sink.



# Anweisungen für des Auseinanderbauen

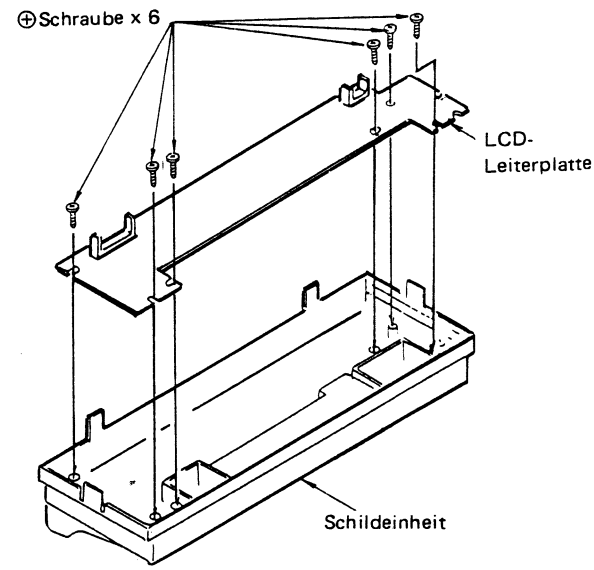
**1. Ausbau der Schildeinheit**

- Zwei Schrauben entfernen und die obere Abdeckung sowie die Bodenplatte abnehmen.



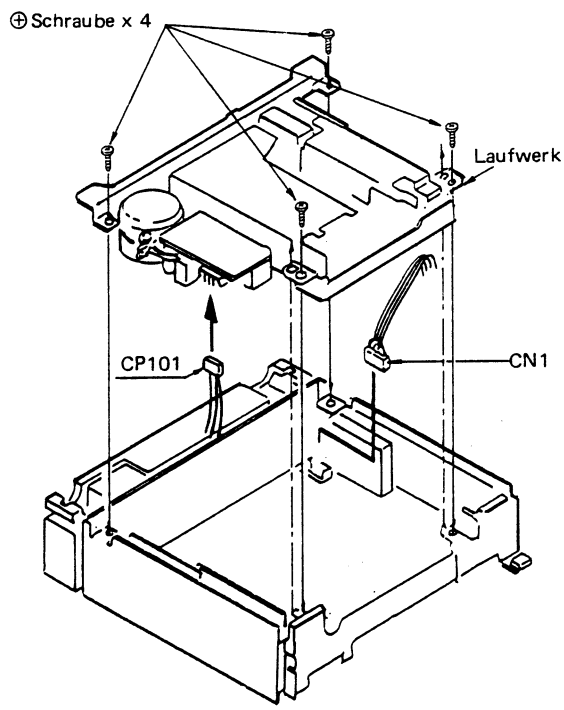

**2. Ausbau der LCD-Leiterplatte.**

- Sechs Schrauben entfernen. (Sieben Stück CQ-RD25EN entfernen.)



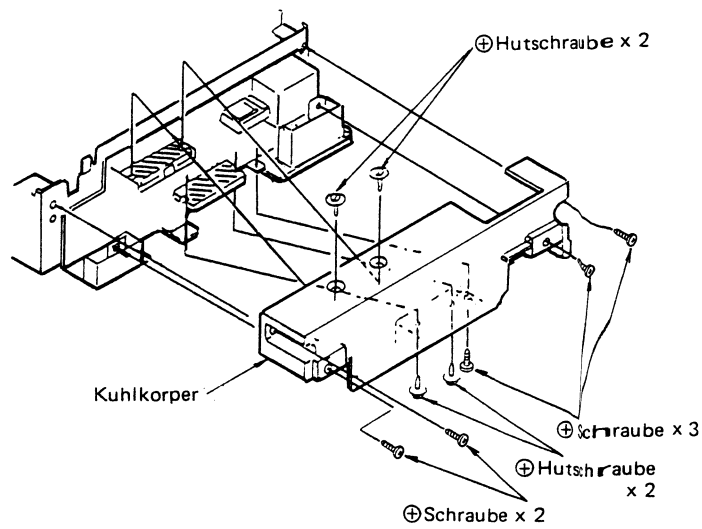

**3. Ausbau des Laufwerks**

- Vier Schrauben entfernen.
- Einen Stecker an zwei Punkten abziehen und das Laufwerk anheben.




**4. Ausbau des Kühlkörpers**

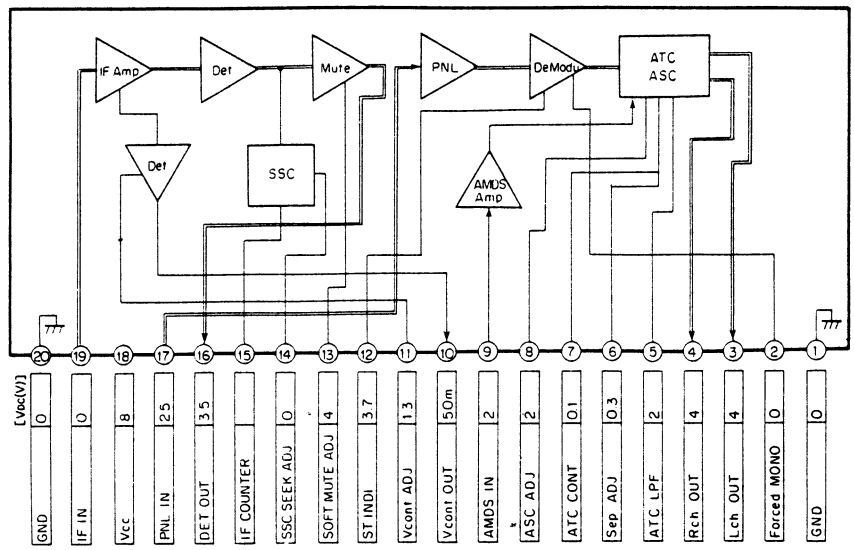
- Sechs Schrauben entfernen.
- Den Kühlkörper herausziehen.



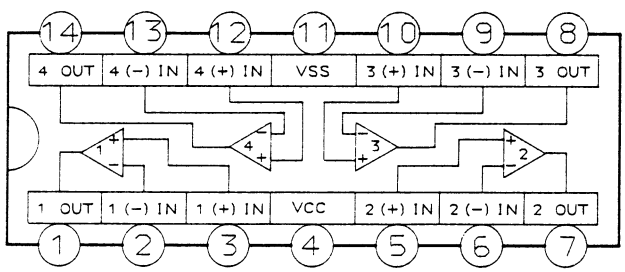
# Package & IC Block Diagram
# Package & IC Block Diagramm

E-6448

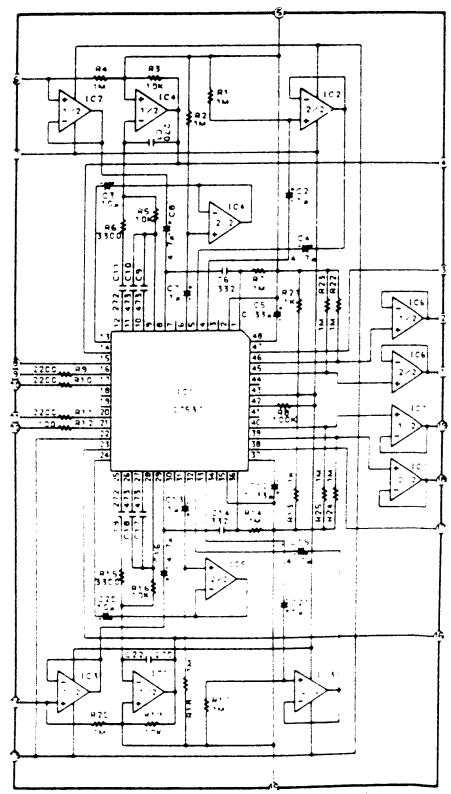
- PA501 YEP0PTS336A0



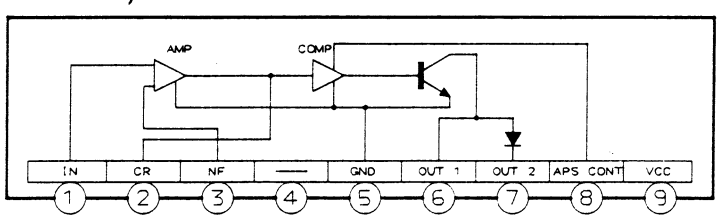

- IC201 YEAMPD4052T2



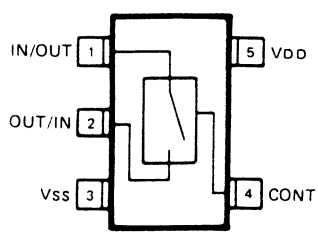

- IC202 YEAMHL1000-2



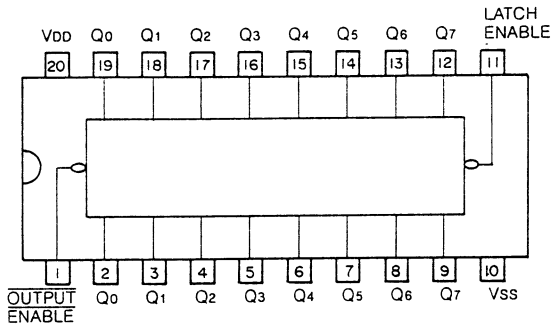
- IC431,450 YEAMLA2000S



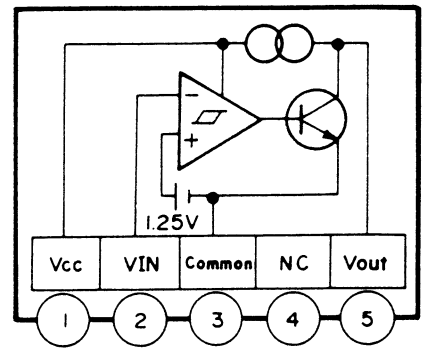

- IC602 YEAMTC4S66FL



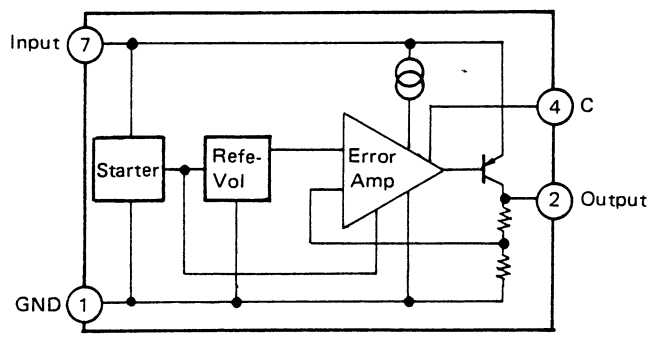
## • IC603 YEAMUPH573T




## • IC701,702 YEAMM51945AL

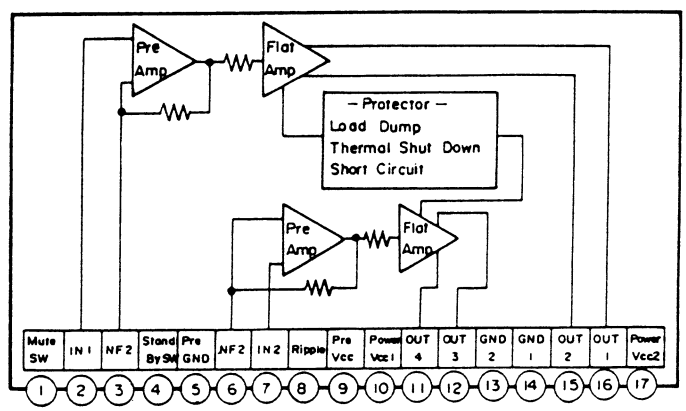



## • IC703 YEAMLA5009M

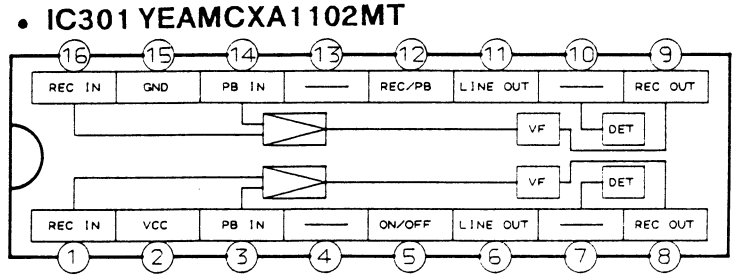



E-5642

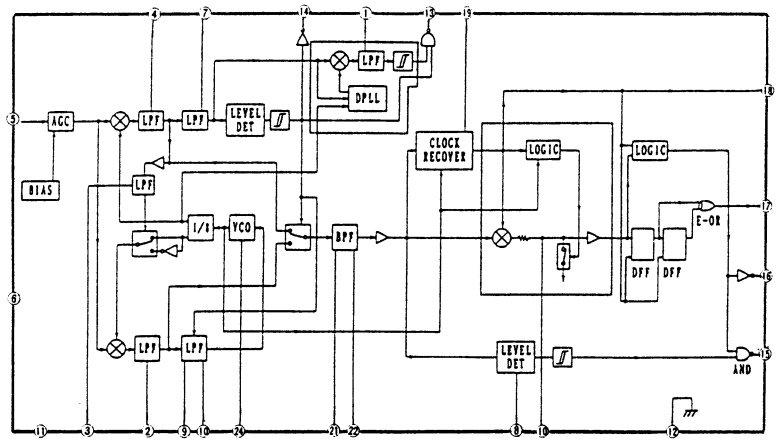
## • IC204, 304 YEAMTA8210AH



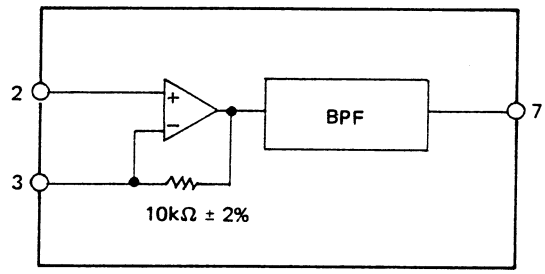

## • IC301 YEAMCXA1102MT



## • IC401 YEAMLA2231M

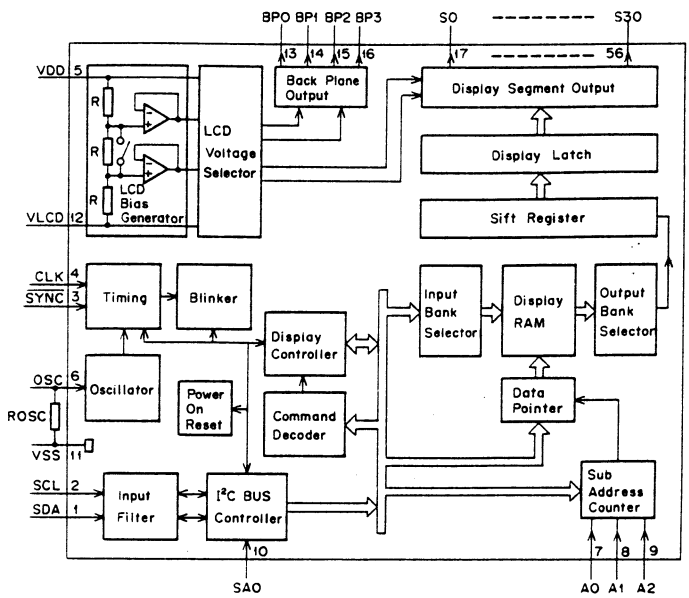



## • IC402 YEAMHL102S



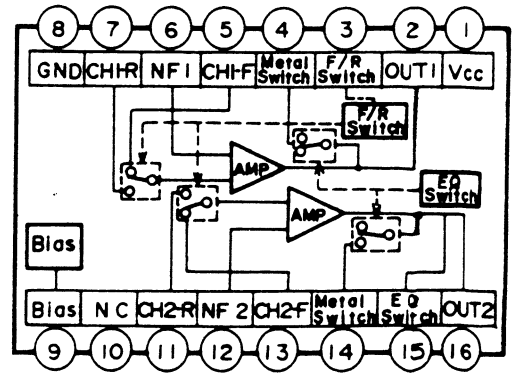

## E-2347

## • IC650 YEAMPCF85767




## E-5291

## • IC290 MC13302M



# Replacement Parts List
## Model NO. CQ-RD15EN

**NOTES :**

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set.

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | | **MISCELLANEOUS** [91.3.22] | | |
| F1 (4-C) | XBB1C30NR1 | | Fuse 3A | 1 | |
| F2 (4-C) | XBA1C100NS1 | | Fuse 10A | 1 | |
| Z51 (2-C) | YEAL02010T | | Neon Tube | 1 | |
| PL651, 652 | YEAL01146 | | Pilot Lamp | 2 | |
| PL653 (2-B) | YEAL01153 | | Pilot Lamp | 1 | |
| PL654, 655 | YEAL01146 | | Pilot Lamp | 2 | |
| PL656 (2-B) | YEAL01153 | | Pilot Lamp | 1 | |
| PL657 to 660 | YEAL01146 | | Pilot Lamp | 4 | |
| AJ1 (4-B) | YEAJ02540 | | Power/Speaker Cord | 1 | |
| AJ2 (4-C) | YEAJ02580 | | CD Cord | 1 | |
| CJ201 (1-C) | YEAE02138 | | AUX Jack | 1 | |
| CN102 (3-A) | YEAE011402 | | 5P Connector | 1 | |
| CN116 (2-B) | YEAE0112TKCX | | 12P Connector (E6448) | 1 | |
| CN117 (1-C) | YEAE0108TKCX | | 8P Connector (E6448) | 1 | |
| CN401 (2-C) | YEAE0108CLA | | 8P Connector (E5696) | 1 | |
| CN701 (2-C) | YEAE011835 | | 20P Connector (E6448) | 1 | |
| CN702 (2-C) | YEAE011835 | | 20P Connector (E6448) | 1 | |
| CP51 (2-C) | YEAE011742 | | 2P Connector (E6448) | 1 | |
| CP100 (2-C) | YEAEM2005S | | 5P Connector (E6448) | 1 | |
| CP103 (2-B) | YEAE0808XLSP | | 8P Connector (E6448) | 1 | |
| CP110 (3-B) | YEAE0107WK | | 7P Connector (E5642) | 1 | |
| CP111 (3-B) | YEAE0105CLA | | 5P Connector (E5642) | 1 | |
| CP112 (3-B) | YEAE0111CLA | | 11P Connector (E5642) | 1 | |
| CP115 (2-C) | YEAE0107WK | | 7P Connector (E5642) | 1 | |
| CP116 (2-A) | YEAE0112TKCV | | 12P Connector (E2347) | 1 | |

MODEL CQ-RD15EN

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| CP117 (2-B) | YEAE0108TKCV | | 8P Connector (E2347) | 1 | |
| 1 (4-C) | YEFA031138 | | Upper Cover for Heat Shink | 1 | |
| 2 (3-A) | YEFA031093 | | Upper Cover | 1 | |
| 3 (1-A) | YEFC05481A | | Handle Cover | 1 | |
| 4 (1-A) | YEFC05482A | | Handle Cover | 1 | |
| 5 (3-A) | YEFX0461247 | | Lever for EJECT | 1 | |
| 6 (3-A) | YEFE132500 | | Button, EJECT | 1 | |
| 7 (3-A) | YEFE132501 | | Button, PRG/FF | 1 | |
| 8 (3-A) | YEFE132502 | | Button, REW | 1 | |
| 9 (3-A) | YEFX0213037B | | Mounting Bracket for Deck | 1 | |
| 10 (1-A) | YEFG09051 | | Bracket | 1 | |
| 11 (4-C) | YEFR04187 | | Lead Protector | 4 | |
| 12 (1-A) | YEFS01817 | | Pad | 2 | |
| 13 (1-A) | YEFX0213127A | | Handle Ass'y | 1 | |
| 14 (2-A) | YEFC023583 | | Escutchon Ass'y | 1 | |
| 15 (3-B) | YEFA09332 | | Side Plate (L) Ass'y | 1 | |
| 16 ☆ | XSB3 + 6FX | | Screw | 7 | |
| 17 (2-C) | YEFA09331AK | | Side Plate | 1 | |
| 18 (3-B) | YEFA07279 | | Front Plate | 1 | |
| 19 (2-C) | YEFX0212721A | | Mounting Bracket | 2 | |
| 20 ※ | XTB3 + 6FFX | | Screw | 11 | |
| 21 (2-C) | YEFA08352B | | Back Plate | 1 | |
| 22 ★ | XTB3 + 8FFX | | Screw | 2 | |
| 23 (1-B) | YEFV011388 | | Insulator | 1 | |
| 24 (3-B) | YEFA13689A | | Case | 1 | |
| 25 (3-B) | YEFJ05041 | | Nylon Rivet | 1 | |
| 26 (3-B) | YEFF01685 | | Heat Shink | 1 | |
| 27 (2-C) | YEFK06371 | | Battery Holder | 1 | |
| 28 (1-C) | YEFA05499A | | Under Cover | 1 | |
| 29 ⚠ | XYN3 + F16FX | | Screw | 4 | |
| 30 (1-B) | YEFX0213214 | | Mounting Bracket for LCD | 1 | |
| 31 (2-A) | YEFK04523 | | Pilot Lamp Holder | 4 | |
| 32 (2-B) | YEFK04532 | | Pilot Lamp Holder | 1 | |
| 33 (1-B) | YEFK06497 | | Holder | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| 34 (1-A) | YEFR04140 | | Illumi, Cap | 4 | |
| 35 (1-A) | YEFR04333 | | Illumi, Cap | 4 | |
| 36 (2-B) | YEFR04468 | | Illumi, Cap | 1 | |
| 37 (2-B) | YEFR04495 | | Illumi, Cap | 1 | |
| 38 (1-B) | YEFS04493 | | Rubber | 1 | |
| 39 (1-B) | YEFV021057 | | Shade | 1 | |
| 40 (1-B) | YEFX0011238 | | Panel Light | 1 | |
| 41 (2-C) | YEFA13864 | | Case | 1 | |
| 42 ◉ | XSS5 + 8FX | | Screw | 2 | |
| 43 ◎ | YEJS06027 | | Screw | 4 | |
| 44 (2-C) | YEABCR2032H | | Battery | 1 | |
| 45 ▲ | YEJT03081 | | Screw | 1 | |
| 46 ◈ | YEJV08036 | | Screw | 2 | |
| 47 ❖ | XTB2 + 6GFX | | Screw | 6 | |
| 48 (3-B) | YEFX0212814 | | Mounting Bracket for LCD | 1 | |
| 49 (2-B) | YEFX0213049A | | Mounting Bracket for PCB | 1 | |
| 50 (3-B) | YEFX0213065 | | Mounting Bracket for IC | 1 | |
| 51 (2-B)(3-A) | YEP0PT5642D0 | | PCB w/Component | 1 | NLA |
| 52 (1-C) | YEP0PT5696A0 | | PCB w/Component | 1 | NLA |
| 53 (2-A) | YEP0PT2347B0 | | PCB w/Component | 1 | NLA |
| 54 (1-B) | YEP0PT6448A0 | | PCB w/Component | 1 | NLA |
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| **PRINTING** | | | | | |
| | YEFM281839 | | Instruction Book | 1 | |
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| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| **INSTALLATION PARTS** | | | | | |
| | YEFX0213126A | | Quick Release Bracket | 1 | |
| | YEFG04010A | | Rear Support Stsrap | 1 | |
| | XNG5AFX | | Hex. Nut (5mmφ) | 2 | |
| | XVG5C25FX | | Hex. Bolt (5mmφ × 25mm) | 1 | |
| | YEJV01060 | | Mountijng Bolt | 1 | |
| | XWA5BFX | | Spring washer | 2 | |
| | XWC5CFX | | Toothd Lock Washer (5mmφ) | 1 | |
| | XWG5FX | | Plan Washer | 2 | |
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| **ICs & TRANSISTORs** [E6448] | | | | | |
| PA51 | YEAU03STE57 | | PCB w/Component (FMFE) | 1 | |
| PA501 | YEP0PTS336A0 | | PCB w/Component (FMMPX) | 1 | |
| IC200 | YEAMLA3161 | | IC | 1 | |
| IC201 | YEAMPD4052T2 | | IC | 1 | |
| IC202 | YEAMHL1000-2 | | IC | 1 | |
| IC431 | YEAMLA2000S | | IC | 1 | |
| IC450 | YEAMLA2000S | | IC | 1 | |
| IC601 | YEAM17P006GF | | IC | 1 | |
| IC602 | YEAMTC4S66FL | | IC | 1 | |
| IC603 | YEAMUPH573T1 | | IC | 1 | |
| IC604 | YEAM3517L15 | | IC | 1 | |
| IC605 | YEAM6500262 | | IC | 1 | |
| IC701, 702 | YEAMM51945AL | | IC | 2 | |
| IC703 | YEAMLA5009M | | IC | 1 | |
| IC704 | YEAML7809 | | IC | 1 | |
| Q10 | 2SA684QRS | | Transistor | 1 | |
| Q11 | YEANC114YKTX | | Transistor | 1 | |
| Q12 | YEAN2SD1111 | | Transistor | 1 | |
| Q51 | YEANC144EKT | | Transistor | 1 | |
| Q201 | YEANC144EKT | | Transistor | 1 | |

# Exploded View (Unit)
# Anfgelöte Darstellungs (Ganzes Gerät) MODEL CQ-RD15EN

■ Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.

■ The symbols next to the screws indicate as follows.

| | | | | |
|---|---|---|---|---|
| 16 | ☆ | XSB3 + 6FX | ⊕Screw | 3mmϕ x 6mm |
| 20 | ※ | XTB3 + 6FFX | ⊕Screw | 3mmϕ x 6mm |
| 22 | ★ | XTB3 + 8FFX | ⊕Screw | 3mmϕ x 6mm |
| 29 | △ | XYN3 + F16FX | ⊕Screw | 3mmϕ x 16mm |
| 42 | ⊙ | XSS5 + 8FX | ⊕Screw | 5mmϕ x 8mm |
| 43 | ◎ | YEJS06027 | ⊕Screw | |
| 45 | ▲ | YEJT03081 | ⊕Screw | |
| 46 | ■ | YEJV08036 | ⊕Screw | |
| 47 | ❖ | XTB3+6GFX | ⊕Screw | 2mmϕ x 6mm |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| Q301 | YEANC144EKT | | Transistor | 1 | |
| Q431 | YEANC1623T1 | | Transistor | 1 | |
| Q601 | YEAN2SK536 | | Transistor | 1 | |
| Q602 | YEANC144EKT | | Transistor | 1 | |
| Q603 | YEANA124EKTX | | Transistor | 1 | |
| Q604 | YEANFN3L4ZT2 | | Transistor | 1 | |
| Q605 | YEANFN3L4ZT1 | | Transistor | 1 | |
| Q606, 607 | YEANA812 | | Transistor | 2 | |
| Q608 | YEAN2SD1020 | | Transistor | 1 | |
| Q609 | YEANC144EKT | | Transistor | 1 | |
| Q701, 702 | YEAN2SD1020 | | Transistor | 2 | |
| Q703 | YEAND2144STW | | Transistor | 1 | |
| Q704 | YEAN2SD1020 | | Transistor | 1 | |
| Q705 | YEAN2SD2007 | | Transistor | 1 | |
| Q706, 707 | YEANB123YST | | Transistor | 2 | |
| Q708 | YEAN2SB810 | | Transistor | 1 | |
| Q711, 712 | YEANBP1F3PT | | Transistor | 2 | |
| Q713 | YEANC144EKTX | | Transistor | 1 | |
| Q714 | YEANC1623T2 | | Transistor | 1 | |
| Q715 | YEANBP1F3PT | | Transistor | 1 | |
| Q716 | YEANC114YKT | | Transistor | 1 | |
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| [E5696] | | RDS BLOCK | | | |
| IC401 | YEAMLA2231M | | IC | 1 | |
| IC402 | YEAMHL102S | | IC | 1 | |
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| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| [E5642] | | AMP, DOLBY BLOCK | | | |
| IC204 | MC13306T3 | | IC | 1 | |
| IC301 | YEAMCX1102MT | | IC | 1 | |
| IC304 | MC13306T3 | | IC | 1 | |
| Q230 | YEANC4081SKT | | Transistor | 1 | |
| Q231 | YEANC4081SKT | | Transistor | 1 | |
| Q330 | YEANC4081SKT | | Transistor | 1 | |
| Q331 | YEANC4081SKT | | Transistor | 1 | |
| | | | | | |
| [E2347] | | DISPLAY BLOCK | | | |
| IC650 | YEAMPCF8576T | | IC | 1 | |
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| [E6443] | | **DIODEs** | | | |
| D10, 11 | YEADDSM1A2T7 | | Diode | 2 | |
| D51 | YEADRD56JS3 | | Diode | 1 | |
| D101 | YEADAN202KTX | | Diode | 1 | |
| D210 | MA165 | | Diode | 1 | |
| D601 | MA700 | | Diode | 1 | |
| D602 to 607 | MA150 | | Diode | 6 | |
| D609 | YEADDA116T | | Diode | 1 | |
| D612 | YEADAP202KT | | Diode | 1 | |
| D614 | YEADAN202KTX | | Diode | 1 | |
| D616 | MA165 | | Diode | 1 | |
| D617 | MA700 | | Diode | 1 | |
| D701, 702 | YEADDSM1A2T7 | | Diode | 2 | |
| D703 | YEADAN202KT | | Diode | 1 | |
| D705 | YEADRD56JS3 | | Diode | 1 | |
| D706 | YEADRD91JS1T | | Diode | 1 | |
| D709 | YEADRD56JS3 | | Diode | 1 | |
| D710 | MA165 | | Diode | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| [E5696] | | | **RDS BLOCK** | | |
| D401 | YEADRD51JS3T | | Diode | 1 | |
| | | | | | |
| | | | | | |
| [E2347] | | | **DISPLAY BLOCK** | | |
| D652 | LN01801RC5TA | | LED | 1 | |
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| [E6448] | | | **CAPACITORs** | | |
| C10 | ECEA1CU331 | | Electrolytic AL, 330MFD 16WV | 1 | |
| C52 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C53 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C55 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C56 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C101 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C102 | ECEA1AU221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C103 | ECEA1HKS0R1 | | Electrolytic AL, 0.1MFD 50WV | 1 | |
| C104 | YECUS1H101JM | | Ceramic, 100PF 50WV | 1 | |
| C200 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C201 | YECUS1H122KX | | Ceramic, 0.0012MFD 50WV | 1 | |
| C202 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C203 | ECEA0JKS101 | | Electrolytic AL, 100MFD 6.3WV | 1 | |
| C204 | YECUS1H273KX | | Ceramic, 0.027MFD 50WV | 1 | |
| C205 | YECUS1H183KX | | Ceramic, 0.018MFD 50WV | 1 | |
| C206 | YECUS1H220JM | | Ceramic, 22PF 50WV | 1 | |
| C210 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C211 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 1 | |
| C212 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C213 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C214 | ECEA1CKS4R7 | | Electrolytic AL, 4.7MFD 16WV | 1 | |
| C291, 292 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C293 | YECUS1H101JM | | Ceramic, 100PF 50WV | 1 | |
| C301 | YECUS1H122KX | | Ceramic, 0.0012MFD 50WV | 1 | |
| C302 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C303 | ECEA0JKS101 | | Electrolytic AL, 100MFD 6.3WV | 1 | |
| C304 | YECUS1H273KX | | Ceramic, 0.027MFD 50WV | 1 | |
| C305 | YECUS1H183KX | | Ceramic, 0.018MFD 50WV | 1 | |
| C310 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C311 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 1 | |
| C312 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C313 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C314 | ECEA1CKS4R7 | | Electrolytic AL, 4.7MFD 16WV | 1 | |
| C391, 392 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |
| C393 | YECUS1H101JM | | Ceramic, 100PF 50WV | 1 | |
| C431, 432 | YECUS1H183KX | | Ceramic, 0.018MFD 50WV | 2 | |
| C433 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C434 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C435 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C436 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C439 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C450, 451 | YECUS1H183KX | | Ceramic, 0.018MFD 50WV | 2 | |
| C452 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C453 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C454 | YECUS1E333KX | | Ceramic, 0.033MFD 25WV | 1 | |
| C455 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C456 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C501 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C502 | YECUS1E104ZF | | Ceramic, 0.1MFD 25WV | 1 | |
| C503 | YECUS1H471JM | | Ceramic, 470PF 50WV | 1 | |
| C504, 505 | YECUS1E223KX | | Ceramic, 0.022MFD 25WV | 2 | |
| C521 | YECUS1H273KX | | Ceramic, 0.027MFD 50WV | 1 | |
| C531 | YECUS1H273KX | | Ceramic, 0.027MFD 50WV | 1 | |
| C601, 602 | YECUS1H150JM | | Ceramic, 15PF 50WV | 2 | |
| C603 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C604 | ECEA0JKS101 | | Electrolytic AL, 100MFD 6.3WV | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C605 | YEECFYH0H223 | | Capacitor 0.022FD 5WV | 1 | |
| C606 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C607 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C608 | ECSF1VE475 | | Tantalum, 4.7MFD 50WV | 1 | |
| C609 | ECQV1H473JZ | | Polyester, 0.047MFD 50WV | 1 | |
| C610 to 615 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 6 | |
| C616 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C617 | YECUS1H103ZF | | Ceramic, 0.01MFD 50WV | 1 | |
| C618, 619 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 2 | |
| C622 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C623 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C624 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C701 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C702 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C703 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C704 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C705 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C706 | YECUS1C224ZF | | Ceramic, 0.22MFD 16WV | 1 | |
| C707 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C708 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C709 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C710 | ECEA0JKS470 | | Electrolytic AL, 47MFD 6.3WV | 1 | |
| C711 | YECUS1H103ZF | | Ceramic, 0.01MFD 50WV | 1 | |
| C712 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C713 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C714 | YECUS1H103ZF | | Ceramic, 0.01MFD 50WV | 1 | |
| C715 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C716 | YECUS1H221JM | | Ceramic, 220PF 50WV | 1 | |
| C717 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C718 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| CS701, 702 | YECCL55S222T | | Feed trough 2200PF | 2 | |
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| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| [E5696] | | | **RDS BLOCK** | | |
| C401 | ECEA1AKS220 | | Electrolytic AL, 22MFD 10WV | 1 | |
| C402 | YECUS1H332KX | | Ceramic, 0.0033MFD 50WV | 1 | |
| C403 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C404 | YECUS1H332KX | | Ceramic, 0.0033MFD 50WV | 1 | |
| C405 | ECEA1EKS4R7 | | Electrolytic AL, 4.7MFD 25WV | 1 | |
| C406 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C407 | ECEA1CKS100 | | Electrolytic, 10MFD 16WV | 1 | |
| C408 | ECEA1EKS4R7 | | Electrolytic AL, 4.7MFD 25WV | 1 | |
| C409 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C410 | YECUS1E223KX | | Ceramic, 0.022MFD 25WV | 1 | |
| C411 | YECUS1E333KX | | Ceramic, 0.0033MFD 25WV | 1 | |
| C412 | ECQB1H682JZ | | Polyester, 0.033MFD 50WV | 1 | |
| C413 | ECQV1H333JZ | | Polyester, 0.033MFD 50WV | 1 | |
| C414 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C415 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C416 | ECEA1AKS470 | | Electrolytic AL, 47MFD 10WV | 1 | |
| C417 | ECEA0JKS470 | | Electrolytic AL, 47MFD 6.3WV | 1 | |
| C418 | ECEA0JKS470 | | Electrolytic AL, 47MFD 6.3WV | 1 | |
| | | | | | |
| | | | | | |
| [E5642] | | | **AMP, DOLBY BLOCK** | | |
| C206 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C208 | ECEA1HKSR68 | | Electrolytic AL, 0.68MFD 50WV | 1 | |
| C210 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C226 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 1 | |
| C227 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 1 | |
| C228.229 | ECEA1EK3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |
| C230 | YECUS1H152KX | | Ceramic, 0.0015MFD 50WV | 1 | |
| C231.232 | ECEA1AKS330 | | Electrolytic AL, 33MFD 10WV | 2 | |
| C233 | YECUS1H152KX | | Ceramic, 0.0015MFD 50WV | 1 | |
| C234 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C233 | YECUS1H271JM | | Ceramic, 270P 50WV | 1 | |
| C234 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C235 | ECA1CUG222YB | | Electrolytic AL, 2200MFD 16WV | 1 | |
| C236 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C237 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C238 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C239 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C257 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C266 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C306 | ECEA1HK010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C308 | ECEA1HKR68 | | Electrolytic AL, 0.68MFD 50WV | 1 | |
| C326 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 1 | |
| C327 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 1 | |
| C328 | ECEA1EK3R3 | | Electrolytic AL, 3.3MFD 25WV | 1 | |
| C329 | ECEA1EK3R3 | | Electrolytic AL, 3.3MFD 25WV | 1 | |
| C330 | YECUS1H271JM | | Ceramic, 270P 50WV | 1 | |
| C331 | ECEA1AKS330 | | Electrolytic AL, 33MFD 10WV | 1 | |
| C332 | ECEA1AKS330 | | Electrolytic AL, 33MFD 10WV | 1 | |
| C333 | YECUV1H271JM | | Ceramic, 270P 50WV | 1 | |
| C334 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C335 | ECA1CUG222YB | | Electrolytic AL, 2200MFD 16WV | 1 | |
| C336 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C337 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C338 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C339 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C349 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C707 | ECEA1CU471 | | Electrolytic AL, 470MFD 16WV | 1 | |
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| | | | | | |
| | | DISPLAY BLOCK | | | |
| [E2347] | | | | | |
| C031 | YEEUSY103N | | Ceramic, 0.01MFD 50WV | 1 | |
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| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | | **RESISTORs** | | |
| R10 | ERD25FJ2R7 | | Carbon, 2.7 ohms 0.25W | 1 | |
| R11 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R12 | ERJ6GEYJ102 | | Metal Coat, 1K ohms 0.1W | 1 | |
| R13 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R14 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R51 | ERJ6GEYJ471 | | Metal Coat, 470 ohms 0.1W | 1 | |
| R53 | ERJ8GCYJ222 | | Metal Coat, 2.2K ohms 0.13W | 1 | |
| R54 | ERJ6GEYJ183 | | Metal Coat, 18K ohms 0.1W | 1 | |
| R55 | ERJ6GEYJ151 | | Metal Coat, 150 ohms 0.1W | 1 | |
| R56 | ERJ6GEYJ331 | | Metal Coat, 330 ohms 0.1W | 1 | |
| R57 | ERJ6GEYJ151 | | Metal Coat, 150 ohms 0.1W | 1 | |
| R65 | ERJ6GEYJ271 | | Metal Coat, 270 ohms 0.1W | 1 | |
| R101 | ERJ6GEYJ102 | | Metal Coat, 1K ohms 0.1W | 1 | |
| R103 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R104 | ERJ6GEYJ392 | | Metal Coat, 3.9K ohms 0.1W | 1 | |
| R105 | ERJ6GEYJ333 | | Metal Coat, 33K ohms 0.1W | 1 | |
| R106 | ERJ8GCYJ153 | | Metal Coat, 15K ohms 0.13W | 1 | |
| R201 | ERJ6GEYJ333 | | Metal Coat, 33K ohms 0.1W | 1 | |
| R202 | ERJ6GEYJ560 | | Metal Coat, 56 ohms 0.1W | 1 | |
| R203 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R204 | ERJ6GEYJ124 | | Metal Coat, 120K ohms 0.1W | 1 | |
| R205 | ERJ6GEYJ332 | | Metal Coat, 3.3K ohms 0.1W | 1 | |
| R206 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R207 | ERJ6GEYJ104 | | Metal Coat, 100K ohms 0.1W | 1 | |
| R210 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R211, 212 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 2 | |
| R214 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 1 | |
| R215 | ERJ6GEYJ102 | | Metal Coat, 1K ohms 0.1W | 1 | |
| R216 | ERJ6GEYJ393 | | Metal Coat, 39K ohms 0.1W | 1 | |
| R217 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R218 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R219 | ERJ6GEYJ223 | | Metal Coat, 22K ohms 0.1W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R702, 703 | ERDS2TJ560 | | Carbon, 56 ohms 0.25W | 2 | |
| R704 | ERJ6GEYJ334 | | Metal Coat, 330K ohms 0.1W | 1 | |
| R705 | ERJ6GEYJ824 | | Metal Coat, 820K ohms 0.1W | 1 | |
| R706 | ERJ6GEYJ563 | | Metal Coat, 56K ohms 0.1W | 1 | |
| R707 | ERJ6GEYJ334 | | Metal Coat, 330K ohms 0.1W | 1 | |
| R708 | ERJ6GEYJ824 | | Metal Coat, 820K ohms 0.1W | 1 | |
| R709 | ERJ6GEYJ563 | | Metal Coat, 56K ohms 0.1W | 1 | |
| R710 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R711 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R712 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R713 | ERDS2TJ122 | | Carbon, 1.2K ohms 0.25W | 1 | |
| R715 | ERD25TJ1R2 | | Carbon, 1.2 ohms 0.25W | 1 | |
| R716 | ERDS1FJ3R9 | | Carbon, 3.9 ohms 0.5W | 1 | |
| R717 | ERDS1FJ2R7 | | Carbon, 2.7 ohms 0.5W | 1 | |
| R718 | ERX1SJ5R6 | | Carbon, 5.6K ohms 1W | 1 | |
| R719 | ERJ6GEYJ471 | | Metal Coat, 470 ohms 0.1W | 1 | |
| R720 | ERDS2TJ560 | | Carbon, 56 ohms 0.25W | 1 | |
| R721 | ERJ6GEYJ682 | | Metal Coat, 6.8K ohms 0.1W | 1 | |
| R722 | ERD25FJ1R0 | | Carbon, 1 ohm 0.25W | 1 | |
| R723 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R724 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| | | | | | |
| [E5696] | | RDS BLOCK | | | |
| R401 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R403 to 406 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 4 | |
| R407 | ERJ6GEYJ223 | | Metal Coat, 22K ohms 0.1W | 1 | |
| R408 | ERJ8GCYJ564 | | Metal Coat, 560K ohms 0.13W | 1 | |
| R409 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R410 | ERJ6GEYJ824 | | Metal Coat, 820K ohms 0.1W | 1 | |
| R411 | ERJ6GEYJ104 | | Metal Coat, 100K ohms 0.1W | 1 | |
| R412 | ERJ6GEYJ102 | | Metal Coat, 1K ohms 0.1W | 1 | |
| R413 | ERJ6GEYJ272 | | Metal Coat, 2.7K ohms 0.1W | 1 | |
| R420 | ERJ8GCYJ121 | | Metal Coat, 120 ohms 0.13W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| [E5642] | | AMP, DOLBY BLOCK | | | |
| R209 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R210 | ERJ8GCYJ473 | | Metal Coat, 47K ohms 0.13W | 1 | |
| R230 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R231 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R234 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R235 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R236 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R237 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R240 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R241 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R242 | ERDS2TJ2R2 | | Carbon, 2.2 ohms 0.25W | 1 | |
| R243 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R244 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R245 | ERDS2TJ2R2 | | Carbon, 2.2 ohms 0.25W | 1 | |
| R262 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R264 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R267 | ERJ6GEYJ102 | | Metal Coat, 1K ohms 0.1W | 1 | |
| R268 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R309 | ERJ6GEYJ433 | | Metal Coat, 43K ohms 0.1W | 1 | |
| R310 | ERJ8GCYJ103 | | Metal Coat, 10K ohms 0.13W | 1 | |
| R330 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R331 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R334 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R335 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R336 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R337 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R340 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R341 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R342 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R343 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R344 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R345 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R291, 292 | ERJ6GEYJ562 | | Metal Coat, 5.6K ohms 0.1W | 2 | |
| R293, 294 | ERJ6GEYJ681 | | Metal Coat, 680 ohms 0.1W | 2 | |
| R301 | ERJ6GEYJ333 | | Metal Coat, 33K ohms 0.1W | 1 | |
| R302 | ERJ6GEYJ560 | | Metal Coat, 56 ohms 0.1W | 1 | |
| R303 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R304 | ERJ6GEYJ124 | | Metal Coat, 120K ohms 0.1W | 1 | |
| R305 | ERJ6GEYJ332 | | Metal Coat, 3.3K ohms 0.1W | 1 | |
| R306 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R307 | ERJ6GEYJ104 | | Metal Coat, 100K ohms 0.1W | 1 | |
| R310 | ERJ6GEYJ822 | | Metal Coat, 8.2K ohms 0.1W | 1 | |
| R311, 312 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 2 | |
| R314 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 1 | |
| R315 | ERJ6GEYJ102 | | Metal Coat, 1K ohms 0.1W | 1 | |
| R316 | ERJ6GEYJ393 | | Metal Coat, 39K ohms 0.1W | 1 | |
| R317 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R318 | ERJ6GEYJ222 | | Metal Coat, 2.2K ohms 0.1W | 1 | |
| R319 | ERJ6GEYJ223 | | Metal Coat, 22K ohms 0.1W | 1 | |
| R391, 392 | ERJ6GEYJ562 | | Metal Coat, 5.6K ohms 0.1W | 2 | |
| R393, 394 | ERJ6GEYJ681 | | Metal Coat, 680 ohms 0.1W | 2 | |
| R431 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 1 | |
| R432 | ERJ6GEYJ683 | | Metal Coat, 68K ohms 0.1W | 1 | |
| R433 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R434 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R439 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R450, 451 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 2 | |
| R453 | ERJ6GEYJ682 | | Metal Coat, 6.8K ohms 0.1W | 1 | |
| R454 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R455 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R456 | ERDS2TJ331 | | Carbon, 330 ohms 0.25W | 1 | |
| R501, 502 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 2 | |
| R503 | ERJ6GEYJ153 | | Metal Coat, 15K ohms 0.1W | 1 | |
| R504 | ERJ6GEYJ104 | | Metal Coat, 100K ohms 0.1W | 1 | |
| R505 | ERJ6GEYJ184 | | Metal Coat, 180K ohms 0.1W | 1 | |
| R506 | ERJ6GEYJ683 | | Metal Coat, 68K ohms 0.1W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R507 | ERJ6GEYJ393 | | Metal Coat, 39K ohms 0.1W | 1 | |
| R508 | ERJ6GEYJ333 | | Metal Coat, 33K ohms 0.1W | 1 | |
| R511 | ERJ6GEYJ273 | | Metal Coat, 27K ohms 0.1W | 1 | |
| R518, 519 | ERJ6GEYJ824 | | Metal Coat, 820K ohms 0.1W | 2 | |
| R601, 602 | ERJ6GEYJ332 | | Metal Coat, 3.3K ohms 0.1W | 2 | |
| R603 | ERJ6GEYJ152 | | Metal Coat, 1.5K ohms 0.1W | 1 | |
| R604 | ERJ6GEYJ561 | | Metal Coat, 560 ohms 0.1W | 1 | |
| R606 | ERJ6GEYJ561 | | Metal Coat, 560 ohms 0.1W | 1 | |
| R607 to 610 | ERJ6GEYJ104 | | Metal Coat, 100K ohms 0.1W | 4 | |
| R611, 612 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 2 | |
| R613, 614 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 2 | |
| R615 | ERJ6GEYJ104 | | Metal Coat, 100K ohms 0.1W | 1 | |
| R616, 617 | ERJ6GEYJ332 | | Metal Coat, 3.3K ohms 0.1W | 2 | |
| R618 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R621 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R623 | ERJ6GEYJ470 | | Metal Coat, 47 ohms 0.1W | 1 | |
| R626 | ERJ6GEYJ122 | | Metal Coat, 1.2K ohms 0.1W | 1 | |
| R627 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R628, 629 | ERJ6GEYJ681 | | Metal Coat, 680 ohms 0.1W | 2 | |
| R633 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R634 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R635 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R636 | ERJ6GEYJ472 | | Metal Coat, 4.7K ohms 0.1W | 1 | |
| R637 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R638 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R639 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R640, 643 | ERJ6GEYJ333 | | Metal Coat, 33K ohms 0.1W | 4 | |
| R644 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R645 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R646 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R647 | ERJ6GEYJ473 | | Metal Coat, 47K ohms 0.1W | 1 | |
| R648 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R650 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |
| R701 | ERJ6GEYJ103 | | Metal Coat, 10K ohms 0.1W | 1 | |

# Exploded View (Deck)
# Anfgelöte Darstellungs (Tonband Gerät) MODEL CQ-RD15EN

■ Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.






(04442)
1990. 6

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R362 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R364 | ERJ6GEYJ224 | | Metal Coat, 220K ohms 0.1W | 1 | |
| R367 | ERJ8GCYJ102 | | Metal Coat, 1K ohms 0.13W | 1 | |
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| | | | | | |
| [E2347] | | DISPLAY BLOCK | | | |
| R651 | ERDS2TJ184 | | Carbon, 180K ohms 0.25W | 1 | |
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| **LCD** | | | | | |
| LCD650 | YEXDCM997 | | LCD | 1 | |
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| | | | | | |
| **SWITCHES** | | | | | |
| SW650 to 657 | YEAS09252 | | Preset | 8 | |
| SW659 to 661 | YEAS09252 | | Preset | 3 | |
| SW663 to 670 | YEAS09252 | | Preset | 8 | |
| SW674 | YEAS09252 | | Preset | 1 | |
| RY701 | YEAS15017 | | Relay | 1 | |
| | | | | | |
| | | | | | |
| **VARIABLE RESISTORS** | | | | | |
| VR201, 301 | YEVN632C22K | | 22K ohms | 2 | |
| VR501 | YEVN631C47K | | 47K ohms | 1 | |
| VR502 | YEVN631C22K | | 22K ohms | 1 | |
| VR503 | YEVN631C4R7K | | 4.7K ohms | 1 | |
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| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| **CRYSTALS** | | | | | |
| XL401 | YEXLS456F15M | | Crystal | 1 | |
| XL601 | YEXL51N04500 | | Crystal | 1 | |
| | | | | | |
| | | | | | |
| **COILS** | | | | | |
| L101 | YELT02C4R7KT | | RF Coil | 1 | |
| L601 | YELT02C101KT | | RF Coil | 1 | |
| L701 | YETQ026F090 | | Choke Coil | 1 | |
| L702 | YETQ020F070 | | Choke Coil | 1 | |
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| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| **TAPE PLAYER PARTS** 442 [2 7 90] | | | | | |
| 1 (3-B) | YEFA011207 | | Chassis Ass'y | 1 | |
| 2 (2-C) | YEP0FX1479 | | Head Panel Ass'y | 1 | |
| 3 (2-C) | YEFX0051533 | | Head Spring | 1 | |
| 4 (2-C) | YEAHAGVK2545 | | Head Ass'y w/PCB | 1 | |
| 5 (3-B) | YEFX249359 | | Pinch Roller Arm (F) Ass'y | 1 | |
| 6 (2-A) | YEFX249360 | | Pinch Roller Arm (R) Ass'y | 1 | |
| 7 (2-A) | YEP0FX1480 | | Main Gear Plate Ass'y | 1 | |
| 8 (3-A) | YEAP2290 | | PCB for Switch | 1 | |
| 9 (2-C) | YEAS07161 | | Switch | 1 | |
| 10 (3-A) | YEAS07162 | | Switch | 1 | |
| 11 (3-B) | YEAS08035 | | Switch | 1 | |
| 12 (3-B) | YEAE011663 | | Connector | 1 | |
| 13 (4-B) | YEP0FX1481 | | Cassette Case Ass'y | 1 | |
| 14 (4-B) | YEFX005973 | | P.E Spring | 1 | |
| 15 (4-C) | YEAX01104 | | Solenoid Core | 1 | |
| 16 (2-A) | YEFX218255 | | H.P Roller (A) | 1 | |
| 17 (2-A) | YEFX218256 | | H.P Roller (B) | 1 | |
| 18 (2-A) | YEFX0461254 | | C.H Push Plate | 1 | |
| 19 (2-A) | YEFX0051535 | | Push Lever Spring | 1 | |
| 20 (3-A) | YEFX0051534 | | C.H Spring | 1 | |
| 21 (3-A) | YEFX0461255 | | Push Lever | 1 | |
| 22 (3-C) | YEP0FX1634 | | FR Lever Ass'y | 1 | |
| 23 (4-C) | YEAX01096 | | Solenoid Coil | 1 | |
| 24 (2-B) | YEFX0461256 | | Main Plate | 1 | |
| 25 (2-B) | YEFX0051536 | | M.S Spring | 1 | |
| 26 (2-C) | YEFX0051537 | | H.S Spring | 1 | |
| 27 (2-B) | YEFX0461258 | | FR Solenoid Plate | 1 | |
| 28 (3-B) | YEAK01020 | | Motor Ass'y (1940-11-302) | 1 | |
| 29 (2-A) | YEJS06129 | | Collar Screw (W) | 1 | |
| 30 (2-B) | YEFX0461257 | | FR Working Plate Ass'y | 1 | |
| 31 (2-B) | YEFX0051538 | | FR Spring | 1 | |
| 32 (2-B) | YEFX249364 | | H.P Return Arm | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| 33 (1-B) | YEFX213198 | | Flywheel Ass'y | 2 | |
| 34 (1-B) | YEFR03074 | | Main Belt | 1 | |
| 35 (3-C) | YEFX0051542 | | T.A Spring (C) | 1 | |
| 36 (2-A) | YEFX0051539 | | P.P Spring | 1 | |
| 37 (3-B) | YEFX003510 | | Main Gear | 1 | |
| 38 (3-B) | YEFX026120 | | Middled Pulley | 1 | |
| 39 (3-A) | YEFX0051540 | | Head Panel Spring | 1 | |
| 40 (3-C) | YEFX249361 | | Trigger Arm (C) | 1 | |
| 41 (3-C) | YEJS06128 | | Collar Screw (T) | 1 | |
| 42 (2-A) | YEFX249362 | | H.P Push Arm | 1 | |
| 43 (3-C) | YEFX249363 | | Seesaw Working Plate | 1 | |
| 44 (4-A) | YEFX0051541 | | Power Switch Spring | 1 | |
| 45 (2-C) | YEJT03117 | | Screw Tapping 2mm×4 | 1 | |
| 46 | YEFX014052 | | Snap Ring | 2 | |
| 47 | YEJT03118 | | Screw Tapping 2mm×3mm | 4 | |
| 48(2-B)(3-A) | YEJE01027 | | E-Ring 2mm | 2 | |
| 49 (2-B) | YEJS06130 | | Screw 2mm×3mm | 2 | |
| 50(1-B)(2-B) | YEJW05102 | | Washer 2.1mm×5mm×0.13mm | 2 | |
| 51 (3-B) | YEJW05103 | | Washer 1.85×3.2×0.2 | 2 | |
| 52 (3-B) | YEJW05104 | | Washer 1.5×3.2×0.5 | 2 | |
| 53 (3-B) | YEFX014053 | | Washer 1.2×3×0.25 | 1 | |
| 54 (3-B) | YEJS06131 | | Screw Tamas 2.5mm×4mm | 1 | |
| 55 (2-C) | YEJS06132 | | Screw | 2 | |
| 56 (4-C) | YEJS06133 | | Screw | 1 | |

## Replacement Parts List
## Model NO. CQ-RD25EN

**NOTES :**

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set.

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| **MISCELLANEOUS** [91 3 14] | | | | | |
| F1 (4-C) | XBB1C30NR1 | | Fuse 3A | 1 | |
| F2 (4-C) | XBA1C100NS1 | | Fuse 10A | 1 | |
| Z51 (2-C) | YEAL02010T | | Neon Tube | 1 | |
| PL651, 652 | YEAL01146 | | Pilot Lamp | 2 | |
| PL653 (2-B) | YEAL01153 | | Pilot Lamp | 1 | |
| PL654, 655 | YEAL01146 | | Pilot Lamp | 2 | |
| PL656 (2-B) | YEAL01153 | | Pilot Lamp | 1 | |
| PL657 to 660 | YEAL01146 | | Pilot Lamp | 4 | |
| AJ1 (4-B) | YEAJ02540 | | Power/Speaker Cord | 1 | |
| AJ2 (4-C) | YEAJ02580 | | CD Cord | 1 | |
| CJ201 (1-C) | YEAE02138 | | MIC Jack (E6448) | 1 | |
| CN1 (3-A) | EMCS0650Z | | 6P Connector (E2032) | 1 | |
| CN102 (3-A) | EMCZ0609D48V | | 6P Connector | 1 | |
| CN116 (2-B) | YEAE0112TKCX | | 12P Connector (E6448) | 1 | |
| CN117 (1-C) | YEAE0108TKCX | | 8P Connector (E6448) | 1 | |
| CN401 (2-C) | YEAE0108CLA | | 8P Connector (E56960) | 1 | |
| CN701 (2-C) | YEAE011835 | | 20P Connector (E6448) | 1 | |
| CN702 (2-C) | YEAE011835 | | 20P Connector (E6448) | 1 | |
| CP51 (2-C) | YEAE011742 | | 2P Connector (E6448) | 1 | |
| CP100 (2-C) | EMCS0650Z | | 6P Connector (E6448) | 1 | |
| CP101 (2-B) | EMCZ0606D66H | | 6P Connector (E6448) | 1 | |
| CP110 (3-B) | YEAE0107WK | | 7P Connector (E5642) | 1 | |
| CP111 (3-B) | YEAE0105CLA | | 5P Connector (E5642) | 1 | |
| CP112 (3-B) | YEAE0111CLA | | 11P Connector | 1 | |
| CP115 (2-C) | YEAE0107WK | | 7P Connector | 1 | |
| CP116 (2-A) | YEAE0112TKCV | | 12P Connector (E2363) | 1 | |
| CP117 (2-B) | YEAE0108TKCV | | 8P Connector (E2363) | 1 | |
| 1 (4-C) | YEFA031138 | | Upper Cover for Heat Shink | 1 | |
| 2 (3-A) | YEFA031093 | | Upper Cover | 1 | |
| 3 (1-A) | YEFC05481A | | Handle Cover | 1 | |
| 4 (1-A) | YEFC05482A | | Handle Cover | 1 | |
| 5 ◎ | XSB26 + 4FX | | Screw | 4 | |
| 6 (2-A) | YEP0PT2363A0 | | PCB w/Component | 1 | |
| 7 (2-A) | YEFX0213042A | | Mounting Bracket | 1 | |
| 8 (4-A) | YEFW02405 | | Pin | 1 | |
| 9 (3-A) | YEFX0213043A | | Mounting Bracket for Deck | 1 | |
| 10 (1-A) | YEFG09051 | | Bracket | 1 | |
| 11 (4-C) | YEFR04187 | | Lead Protector | 6 | |
| 12 (1-A) | YEFS01817 | | Pad | 2 | |
| 13 (1-A) | YEFX0213127A | | Handle Ass'y | 1 | |
| 14 (2-A) | YEFC023602 | | Escutcheon Ass'y | 1 | |
| 15 (3-B) | YEFA09332 | | Side Plate (L) Ass'y | 1 | |
| 16 ☆ | XSB3 + 6FX | | Screw | 2 | |
| 17 (2-C) | YEFA09331AK | | Side Plate | 1 | |
| 18 (3-B) | YEFA07279 | | Front Plate | 1 | |
| 19 (2-C) | YEFX0212721A | | Mounting Bracket | 2 | |
| 20 ※ | XTB3 + 6FFX | | Screw | 16 | |
| 21 (3-C) | YEFA08352B | | Back Plate | 1 | |
| 22 ★ | XTB3 + 8FFX | | Screw | 2 | |
| 23 (1-B) | YEFV011388 | | Insulator | 1 | |
| 24 (3-B) | YEFA13689A | | Case | 1 | |
| 25 (3-B) | YEFJ05041 | | Nylon Rivet | 1 | |
| 26 (3-B) | YEFF01685 | | Heat Shink | 1 | |
| 27 (2-C) | YEFK06371 | | Battery Holder | 1 | |
| 28 (1-C) | YEFA05499A | | Under Cover | 1 | |
| 29 ⚠ | XYN3 + F16FX | | Screw | 4 | |
| 30 (1-B) | YEFX0213214 | | Mounting Bracket for LCD | 1 | |
| 31 (2-A) | YEFK04523 | | Pilot Lamp Holder | 4 | |
| 32 (2-B) | YEFK04532 | | Pilot Lamp Holder | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| 33 (1-B) | YEFK06497 | | Holder | 1 | |
| 34 (1-A) | YEFR04140 | | Illumi, Cap | 4 | |
| 35 (1-A) | YEFR04333 | | Illumi, Cap | 4 | |
| 36 (2-B) | YEFR04468 | | Illumi, Cap | 1 | |
| 37 (2-B) | YEFR04495 | | Illumi, Cap | 1 | |
| 38 (1-B) | YEFS04493 | | Rubber | 1 | |
| 39 (1-B) | YEFV021057 | | Shade | 1 | |
| 40 (1-B) | YEFX0011238 | | Panel Light | 1 | |
| 41 (2-C) | YEFA13864 | | Case | 1 | |
| 42 ◉ | XSS5 + 8FX | | Screw | 2 | |
| 43 (3-B) | YEFX0212814 | | Mounting Bracket for IC | 1 | |
| 44 (3-B) | YEFX0213065 | | Mounting Bracket for IC | 1 | |
| 45 (2-B) | YEFX0213049A | | Mounting Bracket for PCB | 1 | |
| 46 ◈ | YEJV08036 | | Screw | 4 | |
| 47 ❖ | XTB2 + 6GFX | | Screw | 7 | |
| 48 (1-B) | YEP0PT6448B0 | | PCB w/Component | 1 | NLA |
| 49 (2-B)(3-A) | YEP0PT5642E0 | | PCB w/Component | 1 | NLA |
| 50 (1-C) | YEP0PT5696A0 | | PCB w/Component | 1 | NLA |
| 51 (2-C) | YEABCR2032H | | Battery | 1 | |
| 52 (3-A) | YEP0PT2032B0 | | PCB w/Component | 1 | NLA |
| 53 (2-A) | YEP0PT5291C0 | | PCB w/Component | 1 | NLA |

## ICs & TRANSISTORS

[E6448]

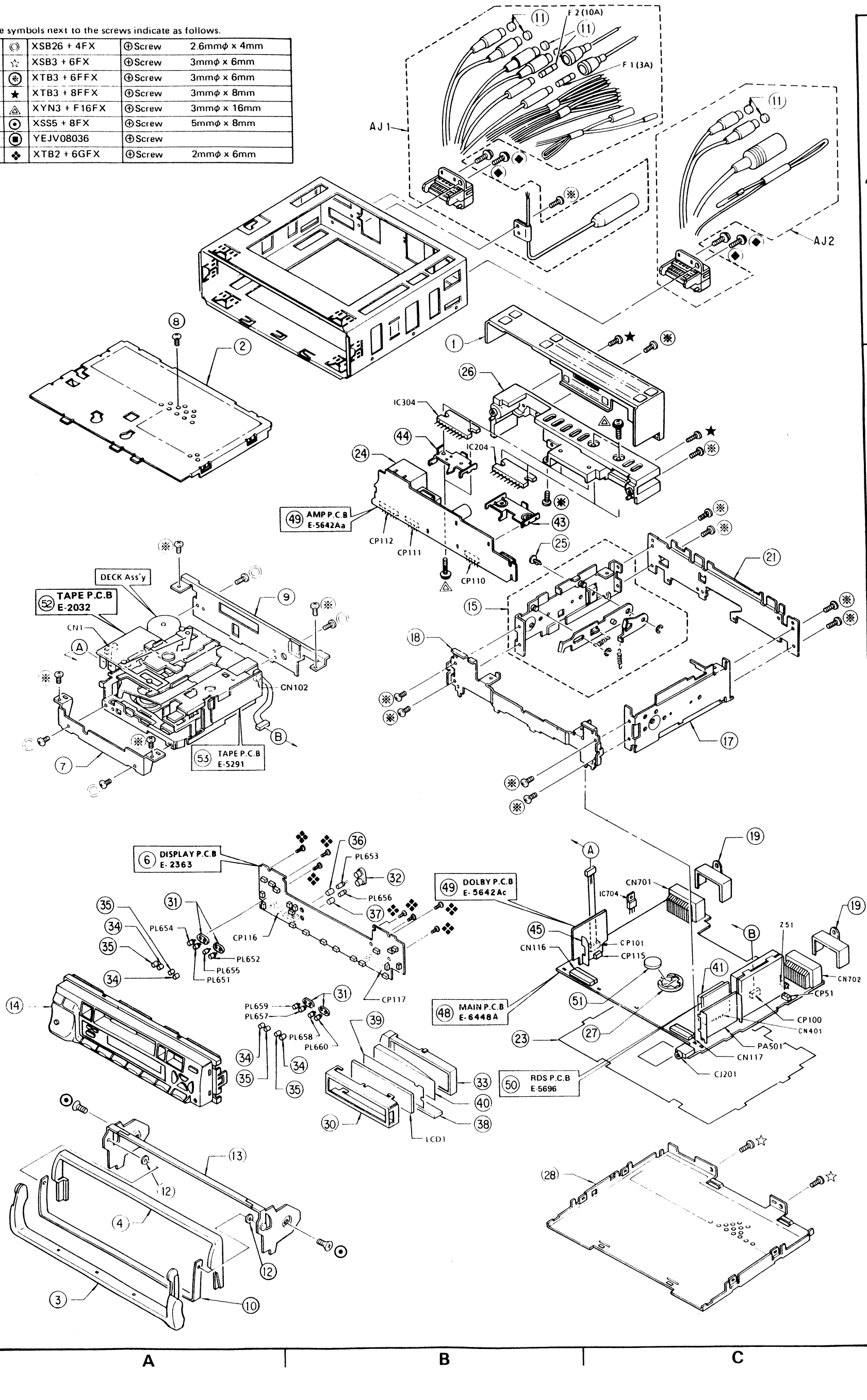
| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| PA51 | YEAU03STE57 | | | 1 | |
| PA501 | YEP0PTS336A0 | | | 1 | |
| IC201 | YEAMPD4052T2 | | IC | 1 | |
| IC202 | YEAMHL1000-2 | | IC | 1 | |
| IC431 | YEAMLA2000S | | IC | 1 | |
| IC450 | YEAMLA2000S | | IC | 1 | |
| IC601 | YEAM17P006GF | | IC | 1 | |
| IC602 | YEAMTC4S66FL | | IC | 1 | |
| IC603 | YEAMUPH573T1 | | IC | 1 | |
| IC604 | YEAM3517L15 | | IC | 1 | |
| IC605 | YEAM6500262 | | IC | 1 | |
| IC701, 702 | YEAMM51945AL | | IC | 2 | |
| IC703 | YEAMLA5009M | | IC | 1 | |
| IC704 | YEAML7809 | | IC | 1 | |
| Q51 | YEANC144EKT | | Transistor | 1 | |
| Q431 | YEANC1623T1 | | Transistor | 1 | |
| Q450 | YEANC144EKT | | Transistor | 1 | |
| Q601 | YEAN2SK536 | | Transistor | 1 | |
| Q602 | YEANC144EKT | | Transistor | 1 | |
| Q603 | YEANA124EKTX | | Transistor | 1 | |
| Q604 | YEANFN3L4ZT2 | | Transistor | 1 | |
| Q605 | YEANFN3L4ZT1 | | Transistor | 1 | |
| Q606, 607 | YEANA812 | | Transistor | 2 | |
| Q608 | YEAN2SD1020 | | Transistor | 1 | |
| Q609 | YEANC144EKT | | Transistor | 1 | |
| Q701, 702 | YEAN2SD1020 | | Transistor | 2 | |
| Q703 | YEAND2144STW | | Transistor | 1 | |
| Q704 | YEAN2SD1020 | | Transistor | 1 | |
| Q705 | YEAN2SD2007 | | Transistor | 1 | |
| Q706, 707 | YEANB123YST | | Transistor | 2 | |
| Q708 | YEAN2SB810 | | Transistor | 1 | |
| Q711, 712 | YEANBP1F3PT | | Transistor | 2 | |

# Exploded View (Unit)
# Anfgelöte Darstellungs (Ganzes Gerät) MODEL CQ-RD25EN

■ Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.

■ The symbols next to the screws indicate as follows.

| | | | | |
|---|---|---|---|---|
| 5 | ◎ | XSB26 + 4FX | ⊕Screw | 2.6mmϕ x 4mm |
| 16 | ☆ | XSB3 + 6FX | ⊕Screw | 3mmϕ x 6mm |
| 20 | ※ | XTB3 + 6FFX | ⊕Screw | 3mmϕ x 6mm |
| 22 | ★ | XTB3 + 8FFX | ⊕Screw | 3mmϕ x 8mm |
| 29 | △ | XYN3 + F16FX | ⊕Screw | 3mmϕ x 16mm |
| 42 | ⊙ | XSS5 + 8FX | ⊕Screw | 5mmϕ x 8mm |
| 46 | ◉ | YEJV08036 | ⊕Screw | |
| 47 | ❖ | XTB2 + 6GFX | ⊕Screw | 2mmϕ x 6mm |



| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| Q713 | YEANC144EKTX | | Transistor | 1 | |
| Q714 | YEANC1623T2 | | Transistor | 1 | |
| Q715 | YEANBP1F3PT | | Transistor | 1 | |
| Q716 | YEANC114YKT | | Transistor | 1 | |
| | | | | | |
| | | | | | |
| | | RDS BLOCK | | | |
| [E5696] | | | | | |
| IC401 | YEAMLA2231M | | IC | 1 | |
| IC402 | YEAMHL102S | | IC | 1 | |
| | | | | | |
| | | | | | |
| | | DISPLAY BLOCK | | | |
| [E2363] | | | | | |
| IC650 | YEAMPCF8576T | | IC | 1 | |
| | | | | | |
| | | | | | |
| | | TAPE EQ BLOCK | | | |
| [E5291] | | | | | |
| IC290 | MC13302M | | IC | 1 | |
| | | | | | |
| | | | | | |
| | | AMP, DOLBY BLOCK | | | |
| [E5642] | | | | | |
| IC204 | YEAMTA8210AH | | IC | 1 | |
| IC301 | YEAMCX1102MT | | IC | 1 | |
| IC304 | YEAMTA8210AH | | IC | 1 | |
| Q230 | YEANC4081SKT | | IC | 1 | |
| Q231 | YEANC4081SKT | | IC | 1 | |
| Q330 | YEANC4081SKT | | IC | 1 | |
| Q331 | YEANC4081SKT | | IC | 1 | |
| | | | | | |
| | | | | | |
| | | | | | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | TAPE BLOCK | | | |
| [E2032] | | | | | |
| Q1 | YEAN2SD1246T | | Transistor | 1 | |
| Q2 | YEANDTC144ST | | Transistor | 1 | |
| Q3 | YEAN2SD1246 | | Transistor | 1 | |
| Q4 | YEANDTC144ST | | Transistor | 1 | |
| Q5 | YEANDTC144ST | | Transistor | 1 | |
| Q6 | 2SA684QRS | | Transistor | 1 | |
| | | | | | |
| | | | | | |
| | | DIODEs | | | |
| [E6448] | | | | | |
| D51 | YEADRD56JS3 | | Diode | 1 | |
| D101 | YEADAN202KTX | | Diode | 1 | |
| D210 | MA165 | | Diode | 1 | |
| D601 | MA700 | | Diode | 1 | |
| D602 to 607 | MA150 | | Diode | 6 | |
| D608, 609 | YEADDA116T | | Diode | 2 | |
| D612 | YEADAP202KT | | Diode | 1 | |
| D614 | YEADAN202KTX | | Diode | 1 | |
| D616 | MA165 | | Diode | 1 | |
| D617 | MA700 | | Diode | 1 | |
| D701, 702 | YEADDSM1A2T7 | | Diode | 2 | |
| D703 | YEADAN202KTX | | Diode | 1 | |
| D705 | YEADRD56JS3 | | Diode | 1 | |
| D706 | YEADRD91JS1T | | Diode | 1 | |
| D709 | YEADRD56JS3 | | Diode | 1 | |
| D710 | MA165 | | Diode | 1 | |
| | | | | | |
| | | RDS BLOCK | | | |
| [E-5696] | | | | | |
| D401 | YEADRD51JS3T | | Diode | 1 | |
| | | | | | |
| | | | | | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | | **DISPLAY BLOCK** | | |
| [E2363] | | | | | |
| D662 | LED1801HC51A | | LED | 1 | |
| | | | **TAPE BLOCK** | | |
| [E2032] | | | | | |
| D1 to 4 | YEAD11ES2 | | Diode | 4 | |
| | | | | | |
| | | | | | |
| | | | **CAPACITORs** | | |
| [E6448] | | | | | |
| C52 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C53 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C55 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C56 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C101 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C102 | ECEA1CU221 | | Electrolytic AL, 220MFD 16WV | 1 | |
| C103 | ECEA1HKS0R1 | | Electrolytic AL, 0.1MFD 50WV | 1 | |
| C104 | YECUS1H101JM | | Ceramic, 100PF 50WV | 1 | |
| C200 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C206 | YECUS1H220JM | | Ceramic, 22PF 50WV | 1 | |
| C210 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C211 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 1 | |
| C212 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C213 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C214 | ECEA1EKS4R7I | | Electrolytic AL, 4.7MFD 25WV | 1 | |
| C291,292 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |
| C293 | YECUS1H101JM | | Ceramic, 100PF 50WV | 1 | |
| C300 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C310 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C311 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 1 | |
| C312 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C313 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C314 | ECEA1EKS4R7I | | Electrolytic AL, 4.7MFD 25WV | 1 | |
| C391.392 | ECEA1EKS3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |
| C393 | YECUS1H101JM | | Ceramic, 100PF 50WV | 1 | |
| C431.432 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 2 | |
| C433 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C434 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C435 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C436 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C439 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C450.451 | YECUS1H183KX | | Ceramic, 0.018MFD 50WV | 2 | |
| C452 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C453 | ECEA1HKSR47 | | Electrolytic AL, 0.47MFD 50WV | 1 | |
| C454 | YECUS1E333KX | | Ceramic, 0.033MFD 25WV | 1 | |
| C455 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C456 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C501 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C502 | YECUS1E104ZF | | Ceramic, 0.1MFD 25WV | 1 | |
| C503 | YECUS1H471JM | | Ceramic, 470PF 50WV | 1 | |
| C504,505 | YECUS1E223KX | | Ceramic, 0.022MFD 25WV | 2 | |
| C521 | YECUS1H273KX | | Ceramic, 0.027MFD 50WV | 1 | |
| C531 | YECUS1H273KX | | Ceramic, 0.027MFD 50WV | 1 | |
| C601.602 | YECUS1H150JM | | Ceramic, 15PF 50WV | 2 | |
| C603 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C604 | ECEA0JKS101 | | Electrolytic AL, 100MFD 6.3WV | 1 | |
| C605 | YEECFYH0H223 | | Capacitor, 0.022FD 5WV | 1 | |
| C606 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C607 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C608 | ECSF1VE475 | | Tantalum, 4.7MFD 35WV | 1 | |
| C609 | ECQV1H473JZ | | Polyester, 0.047MFD 50WV | 1 | |
| C610to615 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 6 | |
| C616 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C617 | YECUS1H103ZF | | Ceramic, 0.01MFD 50WV | 1 | |
| C618, 619 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 2 | |
| C622 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C623 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C624 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C701 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C702 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C703 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C704 | ECEA1HKS0R1 | | Electrolytic AL, 0.1MFD 50WV | 1 | |
| C705 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C706 | YECUS1C224ZF | | Ceramic, 0.22MFD 16WV | 1 | |
| C707 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C708 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C709 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C710 | ECEA0JKS470 | | Elecytolytic AL,47MFD 6.3WV | 1 | |
| C711 | YECUS1H103ZF | | Ceramic, 0.01MFD 50WV | 1 | |
| C712 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C713 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C714 | YECUS1H103ZF | | Ceramic, 0.01MFD 50WV | 1 | |
| C715 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C716 | YECUS1H221JM | | Ceramic, 220PF 50WV | 1 | |
| C717 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C718 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| CS701.702 | YECCL55S222T | | Feed thruogh 2200PF | 2 | |

**RDS BLOCK** [E5696]

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C401 | ECEA1AKS220 | | Electrolytic AL, 22MFD 10WV | 1 | |
| C402 | YECUS1H332KX | | Ceramic, 0.0033MFD 50WV | 1 | |
| C403 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C404 | YECUS1H332KX | | Ceramic, 0.0033MFD 50WV | 1 | |
| C405 | ECEA1EKS4R7 | | Electrolytic AL, 4.7MFD 25WV | 1 | |
| C406 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C407 | ECEA1CKS100 | | Electrolytic, 10MFD 16WV | 1 | |
| C408 | ECEA1EKS4R7 | | Electrolytic AL, 4.7MFD 25WV | 1 | |
| C409 | ECEA1CKS100 | | Electrolytic AL, 10MFD 16WV | 1 | |
| C410 | YECUS1E223KX | | Ceramic, 0.022MFD 25WV | 1 | |
| C411 | YECUS1E333KX | | Ceramic, 0.033MFD 25WV | 1 | |
| C412 | ECQB1H682JZ | | Polyester, 0.0068MFD 50WV | 1 | |
| C413 | ECQV1H333JZ | | Polyester, 0.033MFD 50WV | 1 | |
| C414 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C415 | YECUS1H102KX | | Ceramic, 0.001MFD 50WV | 1 | |
| C416 | ECEA1AKS470 | | Electrolytic AL, 47MFD 10WV | 1 | |
| C417 | ECEA0JKS470 | | Electrolytic AL, 47MFD 6.3WV | 1 | |
| C418 | ECEA0JKS470 | | Electrolytic AL, 47MFD 6.3WV | 1 | |

**AMP, DOLBY BLOCK** [E5642]

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C206 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C208 | ECEA1HKSR68 | | Electrolytic AL, 0.68MFD 50WV | 1 | |
| C210 | ECEA1AKS101 | | Electrolytic AL, 100MFD 10WV | 1 | |
| C226 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 1 | |
| C227 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 1 | |
| C228.229 | ECEA1EK3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |
| C230 | YECUS1H152KX | | Ceramic, 0.0015MFD 50WV | 1 | |
| C231.232 | ECEA1AKS330 | | Electrolytic AL, 33MFD 10WV | 2 | |
| C233 | YECUS1H152KX | | Ceramic, 0.0015MFD 50WV | 1 | |
| C234 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| C235 | ECA1CUG222YB | | Electrolytic AL, 2200MFD 16WV | 1 | |
| C236 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C237 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 1 | |
| C238.239 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 2 | |
| C257 | ECEA1AKS221 | | Electrolytic AL, 220MFD 10WV | 1 | |
| C266 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C306 | ECEA1HKS010 | | Electrolytic AL, 1MFD 50WV | 1 | |
| C308 | ECEA1HKSR68 | | Electrolytic AL, 0.68MFD 50WV | 1 | |
| C326.327 | ECEA1HK2R2 | | Electrolytic AL, 2.2MFD 50WV | 2 | |
| C328.329 | ECEA1EK3R3 | | Electrolytic AL, 3.3MFD 25WV | 2 | |
| C330 | YECUS1H152KX | | Ceramic, 0.0015MFD 50WV | 1 | |
| C331.332 | ECEA1AKS330 | | Electrolytic AL, 33MFD 10WV | 2 | |
| C333 | YECUV2A152KX | | Ceramic, 0.0015MFD 100WV | 1 | |
| C334 | ECEA1AKS221 | | Electrolytoic AL, 220MFD 10WV | 1 | |
| C335 | ECA1CUG222YB | | Electrolytic AL, 2200MFD 16WV | 1 | |
| C336to339 | ECQV1H124JZ | | Polyester, 0.12MFD 50WV | 4 | |
| C349 | YECUS1H103KX | | Ceramic, 0.01MFD 50WV | 1 | |
| C707 | ECEA1CU471 | | Electrolytic AL, 470MFD 16WV | 1 | |
| | | | | | |

**DISPLAY BLOCK**

[E2363]

| | | | | | |
|---|---|---|---|---|---|
| C651 | YEE05Y103N | | Ceramic, 0.01MFD 50WV | 1 | |
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| | | | | | |

**TAPE EQ BLOCK**

[E5291]

| | | | | | |
|---|---|---|---|---|---|
| C290, 291 | YECUV1H331JM | | Ceramic, 330PF 50WV | 2 | |
| C292 | ECEA0GKS330 | | Electrolytic AL, 33MFD 4WV | 1 | |
| C293 | YECUV2A123KX | | Ceramic, 0.012MFD 100WV | 1 | |
| C294 | ECEA1VKS4R7 | | Electrolytic AL, 4.7MFD 35WV | 1 | |
| C295 | YECUV1E224ZF | | Ceramic, 0.22MFD 25WV | 1 | |
| C296, C297 | YECUV2A103KX | | Ceramic, 0.01MFD 100WV | 2 | |
| C390, 391 | YECUV1H331JM | | Ceramic, 330PF 50WV | 2 | |
| C392 | ECEA0GKS330 | | Electrolytic AL, 33MFD 4WV | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|

**TAPE BLOCK**

[E2032]

| | | | | | |
|---|---|---|---|---|---|
| C1 | ECEA1CU471 | | Electrolytic al, 470MFD 16WV | 1 | |
| C2 | YEE05Y103N | | Ceramic, 0.01MFD 50WV | 1 | |
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## RESISTORs

[E6448A]

| | | | | | |
|---|---|---|---|---|---|
| R51 | ERJ6GEYJ471 | | Metal Coat, 470 ohms 0.1W | 1 | |
| R53 | ERJ8GCYJ222 | | Metal Coat, 2.2k ohms 0.13W | 1 | |
| R54 | ERJ6GEYJ183 | | Metal Coat, 18k ohms 0.1W | 1 | |
| R55 | ERJ6GEYJ151 | | Metal Coat, 150 ohms 0.1W | 1 | |
| R56 | ERJ6GEYJ331 | | Metal Coat, 330 ohms 0.1W | 1 | |
| R57 | ERJ6GEYJ151 | | Metal Coat, 150 ohms 0.1W | 1 | |
| R65 | ERJ6GEYJ271 | | Metal Coat, 270 ohms 0.1W | 1 | |
| R101 | ERJ6GEYJ102 | | Metal Coat, 1k ohms 0.1W | 1 | |
| R103 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R104 | ERJ6GEYJ392 | | Metal Coat, 3.9k ohms 0.1W | 1 | |
| R105 | ERJ6GEYJ333 | | Metal Coat, 33k ohms 0.1W | 1 | |
| R106 | ERJ8GCYJ153 | | Metal Coat, 15k ohms 0.13W | 1 | |
| R210 | ERJ6GEYJ472 | | Metal Coat, 4.7k ohms 0.1W | 1 | |
| R211.212 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 2 | |
| R214 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 1 | |
| R215 | ERJ6GEYJ102 | | Metal Coat, 1k ohms 0.1W | 1 | |
| R216 | ERJ6GEYJ393 | | Metal Coat, 39k ohms 0.1W | 1 | |
| R217 | ERJ6GEYJ472 | | Metal Coat, 4.7k ohms 0.1W | 1 | |
| R218 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R219 | ERJ6GEYJ223 | | Metal Coat, 22k ohms 0.1W | 1 | |
| R291.292 | ERJ6GEYJ562 | | Metal Coat, 5.6k ohms 0.1W | 2 | |
| R293.294 | ERJ6GEYJ681 | | Metal Coat, 680 ohms 0.1W | 2 | |
| R300 | ERJ8GCYJ472 | | Metal Coat, 4.7k ohms 0.13W | 1 | |
| R310 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R311.312 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 2 | |
| R314 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 1 | |
| R315 | ERJ6GEYJ102 | | Metal Coat, 1k ohms 0.1W | 1 | |
| R316 | ERJ6GEYJ393 | | Metal Coat, 39k ohms 0.1W | 1 | |
| R317 | ERJ6GEYJ472 | | Metal Coat, 4.7k ohms 0.1W | 1 | |
| R318 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R319 | ERJ6GEYJ223 | | Metal Coat, 22k ohms 0.1W | 1 | |
| R391.392 | ERJ6GEYJ562 | | Metal Coat, 5.6k ohms 0.1W | 2 | |
| R393.394 | ERJ6GEYJ681 | | Metal Coat, 680 ohms 0.1W | 2 | |
| R431 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 1 | |
| R432 | ERJ6GEYJ683 | | Metal Coat, 68k ohms 0.1W | 1 | |
| R433 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R434 | ERJ6GEYJ472 | | Metal Coat, 4.7k ohms 0.1W | 1 | |
| R439 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R450.451 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 2 | |
| R452 | ERJ6GEYJ682 | | Metal Coat, 6.8k ohms 0.1W | 1 | |
| R453 | ERJ6GEYJ683 | | Metal Coat, 68k ohms 0.1W | 1 | |
| R454 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R455 | ERJ6GEYJ472 | | Metal Coat, 330 ohms 0.1W | 1 | |
| R456 | ERDS2TJ331 | | Carbon, 4.7k ohms 0.25W | 1 | |
| R501.502 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 2 | |
| R503 | ERJ6GEYJ153 | | Metal Coat, 15k ohms 0.1W | 1 | |
| R504 | ERJ6GEYJ104 | | Metal Coat, 100k ohms 0.1W | 1 | |
| R505 | ERJ6GEYJ184 | | Metal Coat, 180k ohms 0.1W | 1 | |
| R506 | ERJ6GEYJ683 | | Metal Coat, 68k ohms 0.1W | 1 | |
| R507 | ERJ6GEYJ393 | | Metal Coat, 39k ohms 0.1W | 1 | |
| R508 | ERJ6GEYJ333 | | Metal Coat, 33k ohms 0.1W | 1 | |
| R511 | ERJ6GEYJ273 | | Metal Coat, 27k ohms 0.1W | 1 | |
| R518.519 | ERJ6GEYJ824 | | Metal Coat, 820k ohms 0.1W | 2 | |
| R601.602 | ERJ6GEYJ332 | | Metal Coat, 3.3k ohms 0.1W | 2 | |
| R603 | ERJ6GEYJ152 | | Metal Coat, 1.5k ohms 0.1W | 1 | |
| R604 | ERJ6GEYJ561 | | Metal Coat, 560 ohms 0.1W | 1 | |
| R606 | ERJ6GEYJ561 | | Metal Coat, 560 ohms 0.1W | 1 | |
| R607to610 | ERJ6GEYJ104 | | Metal Coat, 100k ohms 0.1W | 4 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R611.612 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 2 | |
| R613.614 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 2 | |
| R615 | ERJ6GEYJ104 | | Metal Coat, 100k ohms 0.1W | 1 | |
| R616.617 | ERJ6GEYJ332 | | Metal Coat, 3.3k ohms 0.1W | 2 | |
| R618 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R623 | ERJ6GEYJ470 | | Metal Coat, 47 ohms 0.1W | 1 | |
| R626 | ERJ6GEYJ122 | | Metal Coat, 1.2k ohms 0.1W | 1 | |
| R627 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R628.629 | ERJ6GEYJ681 | | Metal Coat, 680 ohms 0.1W | 2 | |
| R633 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R634 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R635 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R636 | ERJ6GEYJ472 | | Metal Coat, 4.7k ohms 0.1W | 1 | |
| R637 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R638 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R639 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R640.641 | ERJ6GEYJ333 | | Metal Coat, 33k ohms 0.1W | 2 | |
| R642.643 | ERJ6GEYJ333 | | Metal Coat, 33k ohms 0.1W | 2 | |
| R644 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R645 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R646 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R647 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R648, 650 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 2 | |
| R701 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R702.703 | ERDS2TJ560 | | Carbon, 56 ohms 0.25W | 2 | |
| R704 | ERJ6GEYJ334 | | Metal Coat, 330k ohms 0.1W | 1 | |
| R705 | ERJ6GEYJ824 | | Metal Coat, 820k ohms 0.1W | 1 | |
| R706 | ERJ6GEYJ563 | | Metal Coat, 56k ohms 0.1W | 1 | |
| R707 | ERJ6GEYJ334 | | Metal Coat, 330k ohms 0.1W | 1 | |
| R708 | ERJ6GEYJ824 | | Metal Coat, 820k ohms 0.1W | 1 | |
| R709 | ERJ6GEYJ563 | | Metal Coat, 56k ohms 0.1W | 1 | |
| R710 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R711 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 1 | |
| R712 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R713 | ERDS2TJ122 | | Carbon, 1.2k ohms 0.25W | 1 | |
| R715 | ERD25TJ1R2 | | Carbon, 1.2 ohms 0.25W | 1 | |
| R716 | ERDS1FJ3R9 | | Carbon. 3.9 ohms 0.25W | 1 | |
| R717 | ERDS1FJ2R7 | | Carbon. 2.7 ohms 0.5W | 1 | |
| R718 | ERX1SJ5R6 | | Carbon, 5.6 ohms 1W | 1 | |
| R719 | ERJ6GEYJ471 | | Metal Coat, 470 ohms 0.1W | 1 | |
| R720 | ERDS2TJ560 | | Carbon, 56 ohms 0.25W | 1 | |
| R721 | ERJ6GEYJ682 | | Metal Coat, 6.8k ohms 0.1W | 1 | |
| R722 | ERD25FJ1R0 | | Carbon, 1 ohm 0.25W | 1 | |
| R723 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R724 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| | | | | | |
| | | | | | |
| [E5696] | | | **RDS BLOCK** | | |
| R401 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R403to406 | ERJ6GEYJ103 | | Metal Coat, 10k ohms 0.1W | 4 | |
| R407 | ERJ6GEYJ223 | | Metal Coat, 22k ohms 0.1W | 1 | |
| R408 | ERJ8GCYJ564 | | Metal Coat, 560k ohms 0.13W | 1 | |
| R409 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R410 | ERJ6GEYJ824 | | Metal Coat, 820k ohms 0.1W | 1 | |
| R411 | ERJ6GEYJ104 | | Metal Coat, 100k ohms 0.1W | 1 | |
| R412 | ERJ6GEYJ102 | | Metal Coat, 1k ohms 0.1W | 1 | |
| R413 | ERJ6GEYJ272 | | Metal Coat, 2.7k ohms 0.1W | 1 | |
| R420 | ERJ8GCYJ121 | | Metal Coat, 120 ohms 0.13W | 1 | |
| | | | | | |
| | | | | | |
| [E5642] | | | **AMP, DOLBY BLOCK** | | |
| R209 | ERJ6GEYJ473 | | Metal Coat, 47k ohms 0.1W | 1 | |
| R210 | ERJ8GCYJ473 | | Metal Coat, 47k ohms 0.13W | 1 | |
| R230 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R231 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R234 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| R235 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R236 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R237 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R240 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R241 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R242 | ERDS2TJ2R2 | | Carbon, 2.2 ohms 0.25W | 1 | |
| R243 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R244 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 1 | |
| R245 | ERDS2TJ2R2 | | Carbon, 2.2 ohms 0.25W | 1 | |
| R262 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R264 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R267 | ERJ6GEYJ102 | | Metal Coat, 1k ohms 0.1W | 1 | |
| R268 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R309 | ERJ6GEYJ433 | | Metal Coat, 43k ohms 0.1W | 1 | |
| R310 | ERJ8GCYJ103 | | Metal Coat, 10k ohms 0.13W | 1 | |
| R330 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R331 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R334 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R335 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R336 | ERJ6GEYJ822 | | Metal Coat, 8.2k ohms 0.1W | 1 | |
| R337 | ERJ6GEYJ222 | | Metal Coat, 2.2k ohms 0.1W | 1 | |
| R340 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R341 | ERJ6GEYJ391 | | Metal Coat, 390 ohms 0.1W | 1 | |
| R342to345 | ERJ8GCYJ2R2 | | Metal Coat, 2.2 ohms 0.13W | 4 | |
| R362 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R364 | ERJ6GEYJ224 | | Metal Coat, 220k ohms 0.1W | 1 | |
| R367 | ERJ8GCYJ102 | | Metal Coat, 1k ohms 0.13W | 1 | |
| | | | | | |
| | | | | | |
| [E2363] | | | **DISPLAY BLOCK** | | |
| R651 | ERDS2TJ184 | | Carbon, 180k ohms 0.25W | 1 | |
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| | | | | | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | | **TAPE BLOCK** | | |
| [E2032] | | | | | |
| R3 | ERX1SJ1R5 | | Carbon, 1.5 ohms 1W | 1 | |
| R4 | ERDS2TJ473 | | Carbon, 47k ohms 0.25W | 1 | |
| R5 | ERDS2TJ102 | | Carbon, 1k ohms 0.25W | 1 | |
| R6 | ERDS2TJ102 | | Carbon, 1k ohms 0.25W | 1 | |
| | | | **TAPE EQ BLOCK** | | |
| [E5291] | | | | | |
| R290, 291 | ERJ8GCYJ563 | | Metal Coat, 56k ohms 0.13W | 2 | |
| R292 | ERJ8GCYJ121 | | Metal Coat, 120 ohms 0.13W | 1 | |
| R293 | ERJ8GCYJ183 | | Metal Coat, 18k ohms 0.13W | 1 | |
| R294 | ERJ8GCYJ123 | | Metal Coat, 12k ohms 0.13W | 1 | |
| R295 | ERJ8GCYJ334 | | Metal Coat, 330k ohms 0.13W | 1 | |
| R390, 391 | ERJ8GCYJ563 | | Metal Coat, 56k ohms 0.13W | 2 | |
| R392 | ERJ8GCYJ121 | | Metal Coat, 120k ohms 0.13W | 1 | |
| R393 | ERJ8GCYJ183 | | Metal Coat, 18k ohms 0.13W | 1 | |
| R394 | ERJ8GCYJ123 | | Metal Coat, 12k ohms 0.13W | 1 | |
| R395 | ERJ8GCYJ334 | | Metal Coat, 330k ohms 0.13W | 1 | |
| | | | **LCD** | | |
| LCD650 | YEXDCM997 | | LCD | 1 | |
| | | | **SWITCHES** | | |
| SW650 to 657 | YEAS09252 | | Preset | 8 | |
| SW658 to 661 | YEAS09252 | | Preset | 4 | |
| SW662 to 673 | YEAS09252 | | Preset | 11 | |
| RY701 | YEAS15017 | | Relay | 1 | |

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | | **VARIABLE RESISTORS** | | |
| VR201, 301 | YEVN632C22K | | 22k ohms | 2 | |
| VR501 | YEVN631C47K | | 47k ohms | 1 | |
| VR502 | YEVN631C22K | | 22k ohms | 1 | |
| VR503 | YEVN631C4R7K | | 4.7k ohms | 1 | |
| | | | **CRYSTALS** | | |
| XL601 | YEXL51N04500 | | Crystal | 1 | |
| XL401 | YEXLS456F15M | | Crystal | 1 | |
| | | | **COILS** | | |
| L101 | YELT02C4R7KT | | RF Coil | 1 | |
| L601 | YEXLT02C101KT | | RF Coil | 1 | |
| L602 | YELT02C101KT | | RF Coil | 1 | |
| L701 | YETQ026F090 | | Choke Coil | 1 | |
| L702 | YETQ020F070 | | Choke Coil | 1 | |
| | | | **INSTALLATION PARTS** | | |
| | YEFX0213126A | | Quick Release Bracket | 1 | |
| | YEFG04010A | | Rear Support Strap | 1 | |
| | XNG5AFX | | Hex. Nut (5mmφ) | 2 | |
| | XVG5C25FX | | Hex. Bolt (5mmφ×25mm) | 1 | |
| | YEJV01060 | | Mounting Bolt | 1 | |
| | XWA5BFX | | Spring Washer | 2 | |

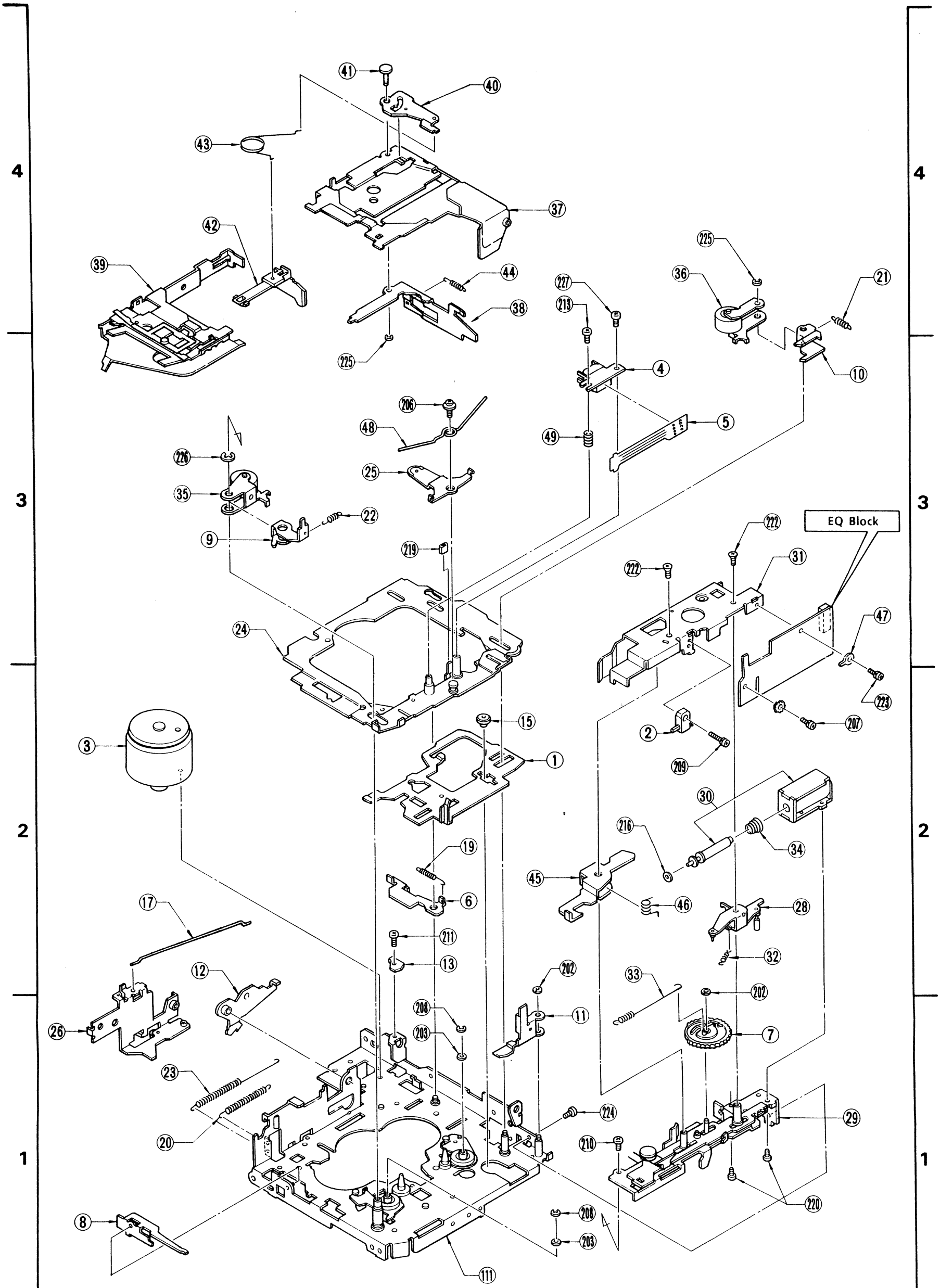
| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | XWC5CFX | | Toothd Lock Washer | 1 | |
| | XWG5FX | | Plain Washer | 2 | |
| | | | | | |
| | | | | | |
| | | | **PRINTING** | | |
| | YEFM281839 | | Instruction Book | 1 | |

MODEL CQ-RD25EN

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| | | | **TAPE PLAYER PARTS** | | 362 [28.11.90] |
| | | | **MECHANICAL PARTS-UPPER PORTION** | | |
| 1 (2-B) | YEFX046875A | | Reverse Plate | 1 | |
| 2 (2-C) | YEAS08028 | | A/B Side DET Switch (SW1) | 1 | |
| 3 (2-A) | YASAK01063 | | Motor Ass'y (YEP0FX1143) | 1 | |
| 4 (3-C) | YEAH23980111 | | Head | 1 | |
| 5 (3-C) | YEAP2233 | | Flexible PCB for Head | 1 | |
| 6 (2-B) | YEFX046874 | | HB Lock Plate | 1 | |
| 7 (1-C) | YEFX003344 | | FR Cam Gear | 1 | |
| 8 (1-A) | YEFX046877 | | Sensor Lever | 1 | |
| 9 (3-A) | YEFX046878 | | Head Return Lever | 1 | |
| 10 (3-C) | YEFX046879 | | FR Cancel Lever | 1 | |
| 11 (1-B) | YEFX046880 | | Reverse Trigger | 1 | |
| 12 (2-A) | YEFX046881 | | TF Link | 1 | |
| 13 (2-B) | YEFX046882 | | C-Washer | 1 | |
| 15 (2-B) | YEFW05264 | | Reverse Coller | 1 | |
| 17 (2-A) | YEFW061396 | | Eject Shaft | 1 | |
| 19 (2-B) | YEFX0051154 | | HB Lock Plate Spring | 1 | |
| 20 (1-A) | YEFX0051158 | | Eject Lever Spring | 1 | |
| 21 (4-C) | YEFX0051161 | | Reverse Trigger Spring | 1 | |
| 22 (3-B) | YEFX0051162 | | FR Selector Spring | 1 | |
| 23 (1-A) | YEFX0051163 | | Cassette Pressure Spring | 1 | |
| 24 (3-A) | YEFA01942A | | Head Chassis Ass'y | 1 | |
| 25 (3-B) | YEFX046888 | | Pinch Plate Ass'y | 1 | |
| 26 (1-A) | YEFX0461131 | | Eject Lever Ass'y | 1 | |
| 28 (2-C) | YEFX046905 | | Mode Selector Lever | 1 | |
| 29 (1-C) | YEFX046907A | | FR Lever Ass'y | 1 | |
| 30 (2-C) | YEAX01061A | | Mode Solenoid Ass'y | 1 | |
| 31 (3-C) | YEFX046909A | | FR Cover | 1 | |
| 32 (2-C) | YEFX0051173 | | Mode Selector Lever Spring | 1 | |
| 33 (2-C) | YEFX0051174 | | FR Cam Spring | 1 | |
| 34 (2-C) | YEFX0051175 | | Mode Solenoid Spring | 1 | |

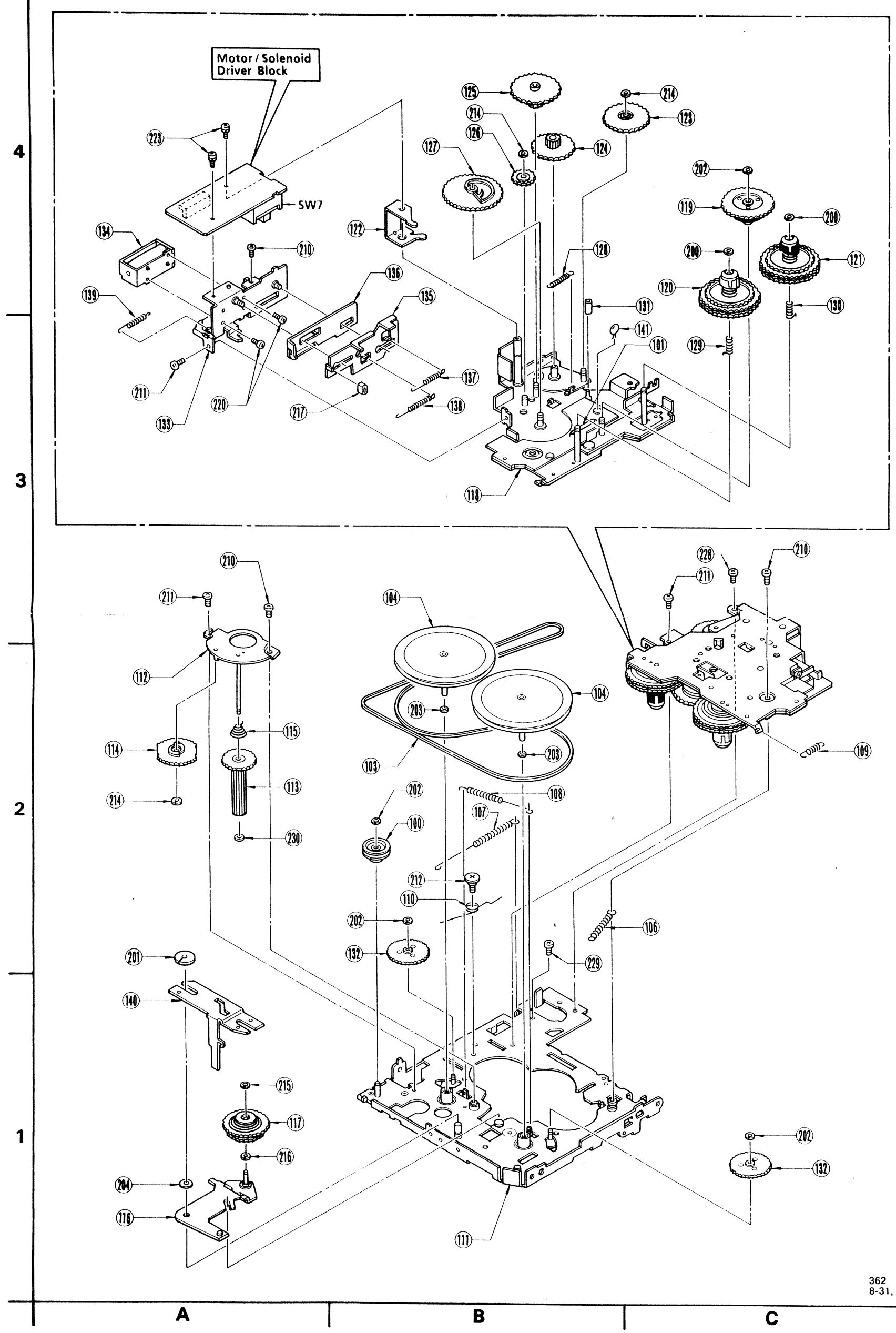
# Exploded View (Deck)
# Anfgelöte Darstellungs (Tonband Gerät) MODEL CQ-RD25EN

■ Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.



# Exploded View (Deck)
# Anfgelöte Darstellungs (Tonband Gerät) MODEL CQ-RD25EN

■ Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.



| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| 35 (2-A) | YEFX218233 | | Pinch Roller Arm Ass'y (L) | 1 | |
| 36 (4-C) | YEFX218234 | | Pinch Roller Arm Ass'y (R) | 1 | |
| 37 (4-B) | YEFX046910 | | Casette Pressure Ass'y | 1 | |
| 38 (4-B) | YEFX046912 | | Rock Plate | 1 | |
| 39 (4-A) | YEFX046983 | | Cassette Holder | 1 | |
| 40 (4-B) | YEFX046914B | | Eject Link | 1 | |
| 41 (4-B) | YEFW061144 | | Eject Link Shaft | 1 | |
| 42 (4-A) | YEFX046915A | | Pack Slider | 1 | |
| 43 (4-A) | YEFX0051176 | | Tumbler Spring | 1 | |
| 44 (4-B) | YEFX0051177 | | Rock Plate Spring | 1 | |
| 45 (2-B) | YEFX046922 | | Pause Lever | 1 | |
| 46 (2-C) | YEFX0051189 | | Spring | 1 | |
| 47 (3-C) | YEAT05016 | | Terminal | 1 | |
| 48 (3-B) | YEFX0051187 | | Pinch Roller Select Spring | 1 | |
| 49 (3-B) | YEFX0051188 | | Head Adjust Spring | 1 | |
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## MECHANICAL PARTS-LOWER PORTION

| | | | | | |
|---|---|---|---|---|---|
| 100 (2-B) | YEFX026111 | | Idle Pulley Ass'y | 1 | |
| 101 (3-C) | YEAS07039B | | Tape End Detector (SW2) | 1 | |
| 103 (2-B) | YEFR03066 | | Drive Belt | 1 | |
| 104 (2-B) | YEFX213194 | | Fly-wheel | 2 | |
| 106 (2-B) | YEFX0051155 | | HBF Spring | 1 | |
| 107 (2-C) | YEFX0051156 | | HHB Spring | 1 | |
| 108 (2-B) | YEFX0051157 | | FI Spring | 1 | |
| 109 (2-C) | YEFX0051159 | | Cassette Sensor Spring | 1 | |
| 110 (2-B) | YEFX0051160 | | Sensor Selector Spring | 1 | |
| 111 (1-B) | YEFA01940B | | Chassis Ass'y | 1 | |
| 112 (2-A) | YEFX046890 | | Reverse Gear Plate Ass'y | 1 | |
| 113 (2-A) | YEFX003330 | | Power Idler Gear | 1 | |
| 114 (2-A) | YEFX003331 | | Reverse Gear | 1 | |
| 115 (2-A) | YEFX0051164 | | Power Idler Spring | 1 | |
| 116 (1-A) | YEFX046894 | | L-Shaped Link | 1 | |
| 117 (1-A) | YEFX003332 | | FR Idler Ass'y | 1 | |
| 118 (3-B) | YEFX046896A | | Reel Chassis Ass'y | 1 | |
| 119 (4-C) | YEFX003335 | | Sensor Gear Ass'y | 1 | |
| 120 (4-C) | YEFX209232 | | Reel Ass'y (L) | 1 | |
| 121 (4-C) | YEFX209233 | | Reel Ass'y (R) | 1 | |
| 122 (4-B) | YEFX046902A | | Solenoid Link | 1 | |
| 123 (4-C) | YEFX003339 | | Gear (1) | 1 | |
| 124 (4-B) | YEFX003340 | | Gear (2) | 1 | |
| 125 (4-B) | YEFX003341 | | Gear (3) | 1 | |
| 126 (4-B) | YEFX003342 | | Gear (4) | 1 | |
| 127 (4-B) | YEFX003343 | | Power Cam Gear | 1 | |
| 128 (4-B) | YEFX0051169 | | Power off Spring | 1 | |
| 129 (3-C) | YEFX0051170 | | Back-tension Spring (L) | 1 | |
| 130 (4-C) | YEFX0051171 | | Back-tension Spring (R) | 1 | |
| 131 (4-C) | YEFS04364A | | Brake Rubber | 1 | |
| 132(2-B)(1-C) | YEFX003329 | | FI Gear | 2 | |
| 133 (4-A) | YEFX046916A | | Solenoid Bracket | 1 | |
| 134 (4-A) | YEAX01062 | | Solenoid for Eject | 1 | |
| 135 (4-B) | YEFX046919A | | Switch Selector Plate (A) | 1 | |
| 136 (4-B) | YEFX046920A | | Switch Selector Plate (B) | 1 | |
| 137 (3-B) | YEFX0051178B | | Switch Selector Plate (A) Spring | 2 | |
| 139 (4-A) | YEFX0051180A | | Timing Lock Spring | 1 | |
| 140 (1-A) | YEFX046876 | | FR Selector Plate | 1 | |
| 141 (3-C) | YECCD1E103KB | | 0.01MFD 25WV Ceramic | 1 | |
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MODEL CQ-RD25EN

| Ref. No. | Part No. | Part Code | Part Name & Description | Pcs set | Remarks |
|---|---|---|---|---|---|
| **SCREW, WASHERS, SNAP RINGS, E-RINGS AND POLYSLIDERS** | | | | | |
| 200 | YEFX014045 | | Snap Ring | 2 | |
| 201 | YEFX014044 | | Snap Ring | 1 | |
| 202 | YEFX014007 | | Snap Ring | 6 | |
| 203 | YEFW05266 | | Washer | 4 | |
| 204 | YEJW05063 | | Polyslider | 1 | |
| 206 | YEJS06114 | | ⊕Screw w/Washer | 1 | |
| 207 | XYN2 + E4FX | | ⊕Screw w/Washer 2mmφ×4mm | 1 | |
| 208 | YEJE01020 | | E-Ring | 2 | |
| 209 | XYN2 + C6FX | | ⊕Screw w/Washer 2mmφ×6mm | 1 | |
| 210 | XSB2 + 3FX | | ⊕Screw Bind 2mmφ×3mm | 4 | |
| 211 | XTB2 + 4FFXS | | ⊕Screw Tapping 2mmφ×4mm | 4 | |
| 212 | YEJS06081 | | ⊕Screw w/Washer | 1 | |
| 213 | YEJS06115 | | ⊕Screw | 1 | |
| 214 | YEFX014019 | | Snap Ring | 3 | |
| 215 | YEFX014035 | | Snap Ring | 1 | |
| 216 | YEJW05003 | | Polyslider | 1 | |
| 217 | YEFS01774 | | SW Rubber | 1 | |
| 219 | YEFS01775 | | HB Rubber | 1 | |
| 220 | YEJS06083 | | ⊕Screw Camera | 4 | |
| 222 | YEJS06085 | | ⊕Screw Camera | 2 | |
| 223 | XYN2 + C4FX | | ⊕Screw w/Washer 2mmφ×4mm | 3 | |
| 224 | XTB26 + 6FFXS | | ⊕Screw 2.6mmφ×6mm | 1 | |
| 225 | YEJE01021 | | E-Ring | 2 | |
| 226 | YEJE01024 | | E-Ring | 1 | |
| 227 | YEJS06086 | | ⊕Screw | 1 | |
| 228 | YEJS06108 | | ⊕Screw Bind 2mmφ×3.5mm | 1 | |
| 229 | YEJS06097A | | ⊕Screw Bind 2mmφ×2.7mm | 1 | |
| 230 | YEFX014037 | | Snap Ring | 1 | |
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